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· Intro programming in C: (1) All c programs mut ahave a function in it called (2) Execution starts in function main. (3) comments start with 1× and end with ×1. (4) All a statement must end in a semicolon (;) (5) the # Include (stdio.h) statement instructs of the C compiler to insert the entire contents of file Itdia h in its place and compile the resulting file. · <u>C-Takens</u>: The smallest individual unit are known as a tokens. C-haves 5-types of Tokens: - Kewards . (break, char, int, continue, fetault, do..) , Interprisers. Cusin defined word; int money; , constants (100 is integer constant, a is character constant) - Оренаtorcs. (AO-(+,-,*, 1), 10-(ee, !!, !)) > Special symbols . (Separratures - (); ") · Data types: > primary - (int, chan, float, double) , Derived / wer defined - (annay, string, structure, Union)

TURAL MADEL



	• Different types of	rent types of modifier with their Pange:				
	Types of Modifier	Size(in byte)	Range of values			
	int	2	$-2^{16-1} to + (2^{-1})$ $-2^{16-1} to + (2^{16-1})$			
	signed int Unsigned int	2	$-2^{16-1} to (2^{16-1})$			
	Short int 10ng int	4	$\frac{-2}{2^{32-1}} + \frac{10}{10} \left(2^{32-1} \right)$ $-2^{32-1} + \frac{10}{10} \left(2^{32-1} \right)$ $-2^{32} + \frac{10}{3 \cdot 4E} + \frac{10}{10} + \frac{10}{3 \cdot 4E}$			
	foat	4 8	$- \frac{2^{8}(3.4\pm73)}{(1.4\pm73)} + \frac{1}{10} + $			
· · · · · · · · · · · · · · · · · · ·	unsigned Charc		-2 to(2-1) o to(2 ⁸ -1)			
	1, %, ++,)					
(3) Relational Operators $(=, +=, -=, \neq =, etc)$ (3) Relational Operators $(deck <, <=, >, >=, !=, ==$						
(9) logical operators (& &, 11, ?)						
	(5) Bitwise operators (&, 1,~,1, <<,>>)					
	(7) Opinter Operators (Sizeofi), Actmany Operatory (7) Opinter Operators (X-value at adiress, &-Adress of Operators).					
			- F			

FLERENST

· Type Conversion: (1) Implicit Type Convertsion on There are Centain care in which data will get automatically converted from one type to another. Example: main () ? float = ; $int \kappa = 10;$ char ay=q; X = X + YZ=X+1.0j print ("x = %, Z = %, X, Z); return 0; 2 output: X= 10+97 = 107 (Ascu value of ais 97) 2= 107+1.0 = 108.000000 (2) Expluit Type Conversion: (Wen defined). Example: int main () S double X = 1.2; int sum = (int) x+1 pf(" sum = "64", sum); trehin o; Ş output & sum= 2

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dassmate · Expression -1) Ivalue: -> Expression that refer to a memory location atre called "Ivalue" expression. > An Ivalue may apporte as either the left 1 -hand at light-hand site of an assignment: b=10 a=b € tovalue: -> The term to value refers to a data value that is stoned at some address in memory. -> can't appears on the left hand side. · C variable types: L) Locar Variable. , Crlobal variable . PX # include (stdloin) int x=10; ____ Gulabar variable. void main() & int a dog = 5 ? _____ Local vaturable. $C = \alpha + X$; print (" Sum = %d', c) output: 5+10 = 15



· Operators in C: Associavity opercators precedence $() \Box \rightarrow \cdot$ Left to Right 1,~,++,--,+,-,*,&,(type), size of Right to Left U Left to Eight. 7, 1, % 0. い 5 <<,>>> く、く=リン・ン= " " ==, != 1) Ł リ 1) L.L ッ 1 11 V Right to Left a 5=,+=,-==, ×=, /=, v/0=, &=, 1=, Prant to Left Loft to right. (=, <<= , >>= Let to right (to remember). · Format specifieres : 0/02 > prints ors decimal number. 10 0/062 -> prints as decimal number, at least 6 Characters wide. 0/0f -> prints as floating point. 0/06f -> prints as floating point, at least 6 character. 0/0.2f -> prints as froating point, 2 characters after decimal point. 0/0 6.24 -> print as floating point, at least 6 wide and 2 after decime 0/0 ⊂ > print as ascii Characterr. - Point. 0/0 lf -> format speciffers for double.

classmate

· Character Input and output: getchate () o- it reads the next input character from a text stream and returns that as its value. C = getchare() the voriable C contains the next Character of input. putcharc() 3- putcharc prints as Character each if time it is called, example o /* cppy input to output */ # mplude <stdio.h) Linux commands void main (void) { VI Alename.c int c; C = getcharce) windo While (C1 = EOF) § Jenter :wy -@gcc_filemame.c. putchar (c); (complie this file) 3 ./a.out C= getchar(); (to run) 3 Z \$ Ja. out i < infile, > out file.



		Your Personal Exams Guide							
	· Storage	Storage classes In C? we have four types of storage							
	~	Classes in Co							
Constant Constant	G) A	6) Auto stonage class.							
111	(ji) R	(ii) Register storage class.							
	نان د	(iii) static storage class. (iv) Extern storage class.							
Sumer	(iv) E								
			u 		- 74	1.00 1.000			
	Storage	stonage	Default initial	Declatration	so scope	Lifetime			
-	Class	Location	ralue	Location	(visibility)	(Alive)			
	5	- 43 r		E LI T					
	auto	Memory	ganbage	Inside a function	within the	Unil the			
in the second		0	ð 0	0/BIOCK	Runction/block	function/blo			
			1	12	1.1.1	compute			
7.	tregister	CPU-ragister	ganbage))	"	Ŋ			
-	lixyisten		J. U						
1.18	stafic	Memory	0	Inside the))	Untip the			
	(local)	1.12 milling		function/ block		program			
1000						terminate			
			OC						
	1.1.00	Memory	50	outside all	Enfine file	Unh'l the			
	statec	THE MIDING		functions	in which it is	program			
	(global)				Aeclaned	tanminat			
-	extern	Memory	0	outside au	Entire file	Until the			
100	exterior			functions	plus other	program			
					files where				
- Sector			gt-		the variable				
					is declaned				
112					as extens				
					1 ~ ~ ~ ~ ~ ~ (en)	an an an an an an Anna			

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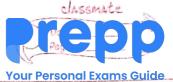
classmate Date . examples-(on stonage classes): int main () § (1)printf (" god", *a); address. so compiler ennor can be ollute in this case. return 0; O/P: Hennon. activation-trecond. int main() { main() 1100 int i = 10;100 $\frac{\operatorname{tregister}_{int} \pi_{a} = ki}{\operatorname{print}(" \sqrt[a]{a}", \pi_{a});}$ rug return 0; O/P: 10. 3 int mainer { int i = 10; Tregister (static) int i=10; → storing the value of i pf(" o/od", i); and in two places meno trepution 0; of places meno return 0; 0/p: compliler entrur

classmate **Your Personal Exams Guide** int count Function Call (void) (Stack Section of process [Auto]int count = 0; return ++ count; main() Count countFC() loun Count FC() count Fc () int main () { Pf() count CF(C) · Count Function(all() j 2 CountFunction Call (); 3 count Function Call (); 4 printe (" vod fimes flinchon is called", count Function coll()); return O; 0/p : 1] 1 fimes function is called. (Data which) of process Count RIXX4 int countoutunction call (void) & Static Port count; February ++ count; 3 int main () § -1 count function Call (); countFunctionCall (); countfunctionCall(); preintf (" V-d Hmer function is called" Kount Function (all); trefution 0; 3 4 times function is called O/P° 4

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(5) what is the output of the following program? sep-# include <stdio.4) main() Stack > (4) int main(); { main() (1) 1 Istatic int i=5; 2 if (--i) { 3 main (); main() (9) 4 printf (" 0/0d", 1); main() man 3 3 ILE 4340 States 0/p° (0000) PROCESS 6 # include < stdio.12 3) main() inti; Stake stack void fun 10 § funil 1=20 ; 30 1 Fym2() ptuntf(" o/od", i); Data section) そう1月20 { Exp sutton void fun 205 int i=30; printf (" o/d" i); int main() \$ 0/p:20 30 · funicij 2 fun 2(); 3 return 0; 3



• <u>Storrage Management</u>: # Include (stalib.h) Local varia Stack section A A heap global & static Data section Text process how many element want to store. atleast 1 (void *malloc (lite-t)m) > Unsigned data-type Site 16 bits. an tel Beacherin ex: void * malloc QOQ (sizeof (10)) -> It allocate in heap of 10 bytes, and treturn a the pointer (starting address) of the space alloca -ted space. int #i; heap 1111111 i = m (int *)malloc (sizeof(int)); 1++; 2 proid * calloc (size-t m, size-t size) What is the size of how many element you want to store each element > mallor and callor always gives spare in configuous menate. heap 102 100

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> puinter of present space classmate ow New to Parsonal Exam (3) void * realloc (void * ptr., size-t size) -> it used to increase the size of space. -> if space is # not available then it returns NULL. 20 Differen ex: void trealloc (100, sizeof (20)) pointer of allocated spur and increase upto 20 byte. (1) void free (void * ptr.) I free the present allocated space by parring the point of the location. -> to avoide memory lick problem the use free. Input and output : formatted output - printh = int printf (Char *format, arg 1, arg 2,) EXS void main() { printf(" %a)", Printf(" %os", " ravindra") 0/p: ravindra 8

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Example: Count number of set bits in x*/. 17 int bit count (Unsigned X) { int b i forc (b=0; x!= 0; x>>=1) 14 (x & 1) x= x>> b++; Return b; Ş X=1100000() bis member of \$1 (1)0000000 (1) b returns no. of 1. b= 173) m · Formatted input-scanf: Vint scanf (char, *format,) 11 10 20 30" of d 24 1/4 Int Ssconf (chare * string , chare * format, ang 1, ang 2,-) (int day month year, sconf ("(1) yod yod", &day, & month, & year); · File input Output: • File Hundling in C: <SHDio. N> FILE *fp; to = FILE * fopen (chan * name, chan * mode) int force (FILE Afp)

classmate fopen() -> creat a new file (orc) open existing file. filosel) -> Closes a file getc() -> reads a character to a file. putc() -> write a character to a file. fscanf() -> neads a set of data from a file. fprintf() > writes a set of data to a file. getwl) - reads an integer from a file. putul) > writes an integer to a file. fseek() > set the position to derite point. ftell() - gives current position in the file. rewind) -> let the polition to the begining point. example: # include <stdio.h) void mind () { FILE #fp; int len; fp=fopen ("file.txt", ""); if (fp = = NULL) & printf ("Ennor Opening file"); fSeek (fp, 0, SEEK-END); len = ftell (fp); -> get file size by ming it. printf(" Totay size of file tart = % d bytem, len); 3

classmate (1p,-2,2) E * 1 int Iserk (FILE * stream, long int officet, int whence) Ó Non-O SUCCESSFUl Fail Whence Begining of file SEEK-SET O current position of file pointer SEEK-CUR) CEFK_END 3 End of file. (long int) ftell (FILE * stream) 012(3 abcd position void rewind (FILE & stream) standard Charc * gets(s) = f puts(), gets() function reade a line from stdin into the buffer pointed to by S until either a termination newli (chan \$5) (OT) EOF int puts (s): - function writes the string s and Atrailing we newline to stdout # include (stdid. h) 0/pc & Numb void main () { R Nama. Chare Stre [100]; printf("Enter astring Im")) gets (stri); puts (sm);

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classmate Relationship between putc(), get((), putchare(), getchare() # include <stdio.b> stdin void main() { stout FILE # 2 P; stderc charch; fp=fopen("test.txt")"); printf("Enter data"); > linux envitrement while ((ch = [getchar()]) = EOF) § 3 putc (ch, fp) fclose (fp); fp=fopen ("one.trt", "r"); while ((ch = get c(fp)) } = EOF) { [printf (" 0/0 C", ch)]; or putc (ch, @des itdout); · file reading and writing by wing putc () and getc() # include Litdio.h) if this file is not prevent them A It will be newly created: void main () } FILE Xfp; chart ch; fp = fopen ("text test.txt", "w"); printf("Enter data"); While ((ch = getchance)) = EOF) § putc (ch, 1p);

classmate our Personal Exams Guide Stoly fclose(fp); fp = fopen ("one.text", ""); getenanc) ICh While ((ch=getc(fp)))=EOF) { putchan(). - prunt P("opc", ch)file fclose (fp); Z syntex of putc() : int putc (intc, FILE XED) int gete (FILE * Pp) · W.A.p to kead stream of characters: #include <stdio.h> # include <stalib.h) # define DEFAULT SIZE 100 int neg resize (chan * P, int count); void main () { int count = 0) capacity = DEFAULTSIZE; capali Char + mput; charch; implit = (char *) malloc (DEFAULT817E); while (Ccn = getcharc()) = EOF)if (count == capacity) { input= reuire (input, capacity); capaity = capaity + PEFALeITSIRE; Input [count + = ch; 3 puts (input); }

classmate Chan * resize (chan *p, int capacity) } return realloc (P, capacity + DEFAULT SIZE); C=0100 100 EOF -- Ctril +d (in linux) Ctril + Z (in window) · Write a c- programmento count inputlines. # include < stdio. by void main()s int line count, c; falle i/p from with. while ((c = getchar())) = EOF) { if(c==' ln')} ++ line count; printf(" 0/02", line count); Ş

classmate **Your Personal Exams Guide** · WA:p by ming Escant U, Aprint f() = # include <stdio.h> 9qt struct emp { A MOULO Char name [10]; 8= int age; void main() { FILE $\neq p$, $\neq q$; p = fopen (crest text", cr"); q = fopen (cr");Struct emp e; q = lopen("test.text", ""); printf ("Enter mome and age"); Scomf(d of os god", ename, de. age); fprintf(P, " gos god", e. nome, e. age); fuose (p); do { fscanf (°4, ° 0/05 0/0], e. norme, e. aye); printf (" o/os % d'; e. norme, e.age); 3 while ('feof(g)); - No zeno (CONCORDED - (EOF) feof()-O - (! E O F)

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Your Personal Exams · C Flow Control Statements: C prevides two types of flow controls = > Branching (deciding what action to take) > Looping (deciding now many times to take a cantain action) · Branching : D it statements (1) (b) if (boolebra expression) 17 statement will be executed Statement 3 true */. condition The It condition is false. is true . Conditional code

examples = # Indude <stdid. h> int main() { inta=10; it (a (20) { printf("ais less than 20"); return 0 ; There and the M O (້ຳຳໍ່) if Choolean expression-1) & from helt 120-11 10 (10) 1* statements will execute if boolean expression 1is true */ else if (boolean expression 2) { * statement will be execute if boolean expression 2 is true and 1 is false */ else ? i / A stalement will execute when both expression 1&2 arre false */

Your Personal Exams Guide condidition If condition is Condition is true false conditional code condition 2 1-mue conditiona false code · Telse code ÷ Example: # include Kstdiooh int main () ٤____ int a =10; if (< < 20) { [. 1 print (" a is less than 20"); } ehe if (0 100) 5 printf ("ais between 20 and 100"); } ehe { print+ (~ a is greater than 100"); * (** returin 0; Z C. A Health

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Your Personal E (11) if (boolean expression) & 1. 1x statement will execute if the boolean expression is true */ Z else § (* statements will execute if the backan to "expression is falle #1. condition. If condition false Tf condition is true else code 1 Conditional examples: 1) # Include (stdie-h) int main() { inta=10if (a<20) Siprintf ("a is less than 20"); erres printe (" ais greater than 20"); 3 return 0;

[example]= (2) W.A.P to check wether a given number is even ore 0 22. # Include <stdie.h> # Include <conie.h> void main (2 g int integen; printf("enter a integer:"); Jcamf("%d", & integer); if (integer %2 == 0) { printf (" Ent even number"); ehe printf (" odd number"); getch(2) [example]= (3) w.A.p to Check the largest number from given number. # melude <stdio.hl # melude < conio.h) int main () } int a, b, c ; CIRCER (); print4 ("Enter three number:"); scanf (" % d % d % d ", & a, & b, & c);

if (a>b) { = dan if(a)(c)printf ("eas o/od "is the largest number") a); else if (b) a) { if (b) () { } pruntf (" o/od is the rargest number", b); else ' { pruntf (" % d is the largist number" (); gt geten(); tutun o; He draft it to A * for the to 1 miz shutre den toi d. A to ("instances and sint) States Parts Jud Made 1 and 1



2 Switch Statement: switch (control variable) ease constant -1: Statement (s); break; case constant-? : statement(s); break; vicase constant-n: stylement (s); · briegy ; default : statement (s); example: 1 # Include <stdio.b) # Include < comis. by void main () § Port weark-day; printf(" enter weekday"); scomf(" % d" & weakday"); switch (weakday) § case 0: printf ("Monday"); break; case 2: printf ("Tuesday"); break; case 2 . printf ("wednesday"); preak; case 3: printf (Thrusday"); break; Case 9: printf ("Friday"); break; case 5: printf ("Satuday"); break; case 6: printf (" sunday"); break; } default: printf (" invalid");

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(xample-(2) White a program to make limple calculatore. # milude (stdio.h) # Include Klonid. h) void int operation; /* char operation*/ double orb; print f (" Enter an operation:") ("Enter (2-34) printf ("in 1. addition. In sod 2. submachion. In 3. Muliplication ... In 4. division."). scant (" a/od", & openation); printf ("Enter two operands:"); scamp (a of lf % lf, & a, & b); Switch (operatore) & care '+': printf ("addition of a'd b: % off", a+b); case - : printf ("sub of akb: golf", a-b); break; cale *: print+ (" mult of adb: 1/ axb); break; case 1': printf ("division of akb: of st", a/b); prease; default: printf ("Invalid choice"); getch ();) Haute Fileman Mypelian : Alexand

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if eve 3 Conditionar Operators (9:5= Lyntax: expression 1 ? expression 2: expression 3 · expression 1 is condition . · expression & is statement followed if condition is true. · expression 3 is statement followed it condition is false. example: (u < 3) ? printf ("/mue"); printf ("fatre"); example 1 # Include <stdPo.y # melude < comio. h) int main () { int age; pf (" Enten your age: 1m"); scanf(ce o/o A" & age); (age >= 18) ? printf (" you are eligible to vote"): printf("not eligible to vole"); · (techurmo; 2 - Y Scanned by CamScanner



· Loop Control Structure : (i) While loop: while (condition) ş 1 * set of statements */ condition. if condition is if condition is Inue false. code block (staio - stondard Va.) example = # Include (stdio. h) void main () while (a (20) { printf (" a value: %d, g); att; Bi

Your Personal Exams Guide (ii) for -loop : fore (initialisation; condition; increment/decrement) ξ conditional code ; Z init condition S Pre if condition true if condition false code block increment • < -Example, = # include <stdio.h) void main() { inta; /* for loop execution */ for (a=0; a<20; a=a+1) { printf(" value of a: v/d"; a); Ş

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(III) Do-While Loop : do { /* statements */ 3 while (condition); Deade block Ų. Clif rot St condition Lif condition is falle example: # include (stdio.h) int main () { $int \alpha = 20; = signard$ do E print ("a value: obd", a); a++ 3 while (a (20); 2 goal was 5 7 11 3 1 ... $\epsilon \rightarrow$ Shar Sugar

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DRersonal Exams Guide examples = 1) N.A.P to calculate the sum of natural numbers. # include <stdio. h> printf("(" of d", & N); for (i=1; i<=N; i++) { Sum = Sum + 1.5 pru'ntf(" cum of ## Natural number %d", sum); getch(); return 0; (2) N.A.p to read input untill wir enter a positive integer. # include <stdio.n> Int main(22 int m; > 0 5 printf (a Enter n value:'); Scanf (" % d", n); _____ 3 while (n <=0) print ((n value & obd, n); _____ _____ Z

· continue statement = conditional Into fonlition is true Continue condition il condition is false. lexample :write and print sum of a only possible integers . # include < ctdia. h) void main() { int i, n, sum = 0; for (i=0; i<15; i++) printf("Enter ineget:"); Scant("o/od", &n); if(m < = 0)(unbrue) Sum = sum + m; print("sum of positive integers= % d", sum); getch(=); " return 0;

YouPersonal Exams Guide · break statement: conditional Cude if condition break. is true condition . if condition is false (Example): WA.p to read & integers until wer enters a negative integen or number of integens read Teaches to 15. # include < stdio. by void maine & Pntn, count, ij for (i = 0; i < 15; i++) { printf(" Read integer."); Scamf("%)d", &n); if (m<0)? <u>break;</u> } Ę 1 0

(example) 1) WAP to check thewheather given number is prime on not # include (stdio. h) void main (){ int m, i, Plag=0; printh (" Enter a positive integen :"); scamf (1.0/02", 12m); for (i=2 ; i is= m/2 ; ++i) { $f(n_{0}) = = 0)$ f(ag = 1;break; 3 if(flag == 0)printf(cc e/od is a prime number?n); and the state of t che printf(" o/od is not a prime number "); g 1. e^{**} 3

Your Personal Exams Guid Example-Q) N.A.p to find factorial of a given number. # Include 2stdio.h> void main () { > for big data type. int n, i; - Unugned long long factorial =1; irang (0-(2-1)) printf ("Enter an inkger: "); Scanf (" % &n); if(m < o)printf(" factorial of nagahive numbers does not exist"); elle & for (1=2; 1 < == n; i++) { factorial = factorial * i; } printf ("factorial of %d = % llu", n, factorial); tong long ununged data type

Example -3 WAP to print half pyrramid using # 1 # include (stdio.h) void main () § Pateroi int i, j, num of trows j for printf("Enter the no. of nows:"); scant ("god", & and then um of rows); for (i=0; i < numotrows; i++) { forc(i=0; i<=1; i++)print ("*"); } print (" m"); 20 numofrious = 35 i = 0, 1, 2, 3, 4output: × ** XXX * * * * * * * * *

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our Personal Exams Guide example: (4) WAP to count number of digits in an integer. # include (stdio.h) void main () { int n, count = 0; prünt-f(" Enter an integer:"); Seant (" o/d", &n); while (m = 0)neeko n = m/10; ++ count ; <u>3</u> printf("Number of digits: 0/0d", count); outputs $m = \frac{142}{10}$ = 14.2 Vint Entran Integer: 142 Number of Argits: 3. (14)00 5 1.4 **()** $m = \frac{1}{10}$ = 0.1 11 count= qx × (3) 0

example: (5) W.A.P to Check Wheather given number's amsting a mostriong on not. amstrong number meanly $371 = 3^{3} + 7^{3} + 1^{3} = 371$ (yes) $121 = 1^{8} + 2^{3} + 1^{3} = 10 \quad (130)$ $1648 = 1^{4} + 6^{4} + 4^{4} + 8^{4} = 1648 (yes)$ # include (stdio.4) # include < malth. h> void main () { int number, Original Humber, remainder, result=0 m=Dj printf("Enter an integer"); scant (" o/od", & Aumberta); Original Number = number; While (original Number 1=0) { 142 n = 3OrigininalNumber/=10; 1. 2 ++m; i. When \$/P= 1/2 originalNomber = number; while (original Humber = 0) } appentis remainder = oreiginas Number %10; 0+2 23+4 result = result + pows (remaider, n); OruginalNumber /= 10; 3 (result == number) ? printf ("Anmstrong Number")? = 8 + 64 + 1= 73 pruntf ("Not Anonstrong Number"); NO annstrong number

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Your Personal Exam example - 6 WAP to to pint the following pattern: * * * ***** * * * * * * * -> #include <stdio.h> void maincy { int i, j, K, namof Rows and ; printf(" Enter Number of Rows "); Scant (" g/od", & numot Rows); Por (i=1; i<= numof ≥ows; i+t) { $forc (j=i; j < num of Rows; j++) \xi$ print+(""); fore (K=1; K< (1×2); K+t) { $\frac{-2}{2} \sim (i \times 2);$ 3 printf("1n")) working provedure = i=1234 (4-1) - - - + - - - (2 + 1 - 1) (4-2) - - + + + - - (2 + 2 - 1)(4-3) - XXXXX - (2×3-1) (4-4) *** * * * * * (*+4-1) - * * * * * *** * * * + +



example = (7)W.A.P to check whether given number is palindrome or not. -> Like, -12] n=121 - 11311 n %.10 -2442 $R = 0 \times 10 + 1 = 1$ = 1×10+2 =12 =12×10+1 =121 > # Include Letdio.m int <u>main ()</u> int <u>m</u>, treveried Number = 0, tremaindet, original Number printf ("Enter anumber:"); Scampf(" of d?", &n); Originan number = D; 12(1) while (m 1 = 0) { (heart) (remerinder = n % 10; neveried Number = neverned Number + 10 + remainder. relie; n/= 10; (originant Humber = = revetued Number)? printf(" palindrome") ; printf("not a palind nome");

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example (8) WAP to generate fibanacci sequences given first number 0, 1, 1, 2, 3, 5, 8, 13, ... # include <stdio.hs $v_{0}id main (2 \xi)$ int first second, sum, num, counter = 0; printf ("Enter the number of ferms:"); scanf (vo A ", & num); printf(" Enteten first number?"); Jcant (" V.d", & forst); printfl" Enter second number:"); sumf(" opt", & record); printf ("Fibonacci series old god "first, record); while (counter < mum) } sum = forst + second; heart print P (" god", sum); first = Lecond ; second = sum; counter +t; $\frac{100\pi \text{ min}g = \text{ mum}=3}{\text{ coum}(\pi=0,1,2)} \quad \text{first}=2$ 23583

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classmate Your Personal Exams Guide · Functions: Syntax of function Defination : (argument) return-data-type function-nume (data-type var 1, data-type Var2 ---) /* funch on - dody */ · Return type :-A function may return a value . some sunctions muy perform the desired operations without returning a value. In this case, the return - type is the Keyword void. example: Multiplication of two number using function. # include <stdio.h> # include < conio.h) int Multiplication (int, int); > function name int main() Sint DJK: (Insch(); function ~ pf(" Enter two value" 1); st (" % 2 % d ", & j). body $K = m \mu h^{\circ} (\dot{l}, \dot{s}) ;$) actual parameters. pf (" o/od 1m", K); return 0; 2 > formay parameters, int Multi (intx, inty)] & fun-- Chin name inta; a = x * y; return a; }



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