Sub: Chapter-10: User-defined Function

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It write down three reules to pass an arriay in a > All function of a c program, musicotherist >An arcray is a fixed size sequenced collection of elements of the same data type (squatory There are three rules to pass an arrivay to a tunction. And the following rules are: 1. The function must be called the name of the arrivay. by passing only 2. In the function definition, the foremal parcameter must be an iarray type is the size of the array does not need to be specified 3. The function probably permiss tishows that the argument is an arrivay. Hwhat is recursion? Explain with example of > Recursioneds as process in which a function calls itself directly on indirectly and the connesstunction is called as recursive function ponding same in the proto-type declaration and the Junetion definitions 3. The types of function must match the types of parcameters. 4. Use of percameteris names in the declaration is optional. 5. If the tunction has no found parameters. the list is were Hen as (void).

The what is parameter and anguments of > Parameter: A parameter is the Varciable listed inside the parcentheses in the function definition worlds all wanted Areguments: An aregument is tuferried to the values that are passed within a function o the function is talled ? 39pt wir & # include Zstdio.h int sum (int a, int b) // function definition and

material int res = (a+b); int aland int b arce

int res = (a+b); int aland int b arce return tres: Il returning the addition? characteristics of modulan picognamme ara as Johnnis: int num1 = 10; num2 = 20000 Non I 2. Communication between mitigation fri result = sum (num1, mum2); 10 pd place printf (" The summation is fd" result); refuren 0; 11 sum is called with num 1 and weib sold silmum2 asilanguments. on it between modules that do not have eatily realled relationship. 5 All modules auce designed as single-ent single exit systems using control strends

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How to declarce a function Just much story !!
> All function at a c program must be declared
A function declaration (also known as function
prototype) consists of four parts. And they are
I do Function tupe (Mature tupe)
2 Function name old set bat . without 3 Parcameter Ust 4. Tereminating semicolon They are coded in the following format:
2: 1n the 10 n tion adjuilled the
June to on-type of tinetion mame (parameter ust)
the arrived does not need to performation
3. The franction biglight House of the
There are some reiles to declare a function.
Following thereinales mismuson si todust
1. The percameter list must be separated
ealls itself directly one indirectly spinings by
2. The percameters name do not need to be the
same in the preoto-type declaration and the
tunction definition,
3. The types of function must match the types
+ parcameters.
1. Use of percameters names in the declaration
5 Optional
List is written as (void).
he ust is will then as (void).

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6. The return type is optiona	1, who	in the function	Hon
returns Intitype datainy	101010	- Famous	
To the netype must be void i	f no 1	value is tretu	rened
8. When the declare types of the types in the function d	to not	match us	ith
the types in the function d	efinition	on, complice	erl
weill produce an ercrore.	up to	سيهم أربط داله	- a-tau
3. The types must match the	he typ	H MANUAL	مامه
in the function definition,	in nu	imper and o	ונטמ
HI Write down some characte	ristic	, of modular	7
priogramming.	n.frd	1 mus tri	
programming. >Modular programming is subdividing a computer pro	the	priocess of	L
subdividing a computer pro	S ream	1 into separ	
sub-programs. It is applie	20 40 m	che designe	ena
development of software s	951201	0000mm	
characteristics of modular	rc Pic	man tri	BRID
are us judici.		2	
1. Each module should do on		refr tri	
2. Communication between	noau	ies is assitili	مسوم

2. Communication between modules is aballowed only by a calling module.

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4. No communication can take place directly setween modules that do not have calling - called relationship.

5. All modules arci designed as single-entry, single exit systems using control structures

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He categories of Junction with example.

It write a program to calculate the standard dariation of an arrray of values. The arrray elements are need troon the terrminal. Use function to calculate standard dariation and mean. > Standard dariation = VI TOR-xi) where, or is mean (of value, mue) mulan Program: #include Lstdio.h) Ludur Hinclude Lmath. W Emer 5 sloat values #define SIZE 5 float std-der (float all; Hint) 3.07 0.70 0.28 float mean (float all, int n); Std deviation is 23.231582 int main() float value [9[7E]; preints (" Enterc 1.d float values m", 4IZE); forc(i=0; iZSIZE; i++) scanf ("1.f", & ralueti]); prints ("std deriation is 1.5 m", std-der (value, 512F)); neturno; float std_der(float at], int n)} int is float & sum = 0.0; x = mean(a, n) for (i=0; izn; i++) sum += (x-ati]) * (x-ati]); teturn (sqrt (sum (Gloat)n));

float mean (float al I, intn)? interior contra parer. ed . souler la mortie na float sum = 0:0) for Ci=o; i Zn; i++), sum = sum fatilis nothers burbant metaurn (sum/ (thoot) tm) desm si so consider mentional. Hindude Lstdio. h) Input: Hindlude Imath. W Emer 5 float values Halfine SIZE 5 35.0 67.0 79.5(+14.29 55.75) veb bis trolt fleat mean (float al 1, int n): output: Std. deriation is 23.231582 float value [SIZE]; 20 1/2 prunts [" Entercife float valuis]n", SIZE); Jon (i=0; iZSIZE; i+1) Scanf ("1.5" gralustis); prints (" std deriation is 11 1 1 ") std-der (value neturno; float std_dev(float all int n)} float x sum = 0.01