Date _ C++ -unctions Topic's Covered -20 C++ functions + C++ Function Types C++ function oversloading C++ Defgar Argument C++ Storage Class C++ Recursion C++ Return Reperence C++ functions A function is a block of code that performs a specific task. Suppose we need to Create a program to Procede a Circule 4 Color it. He can create two functions to solve this problem. · A generion a drawthe circule. · of function to Color the circule. Dividing a Complex problem into smaller chanks makes our problem easy to understeend & Reusable,

There are two types of function. 1. Standard Library function: predepine in C++ 2. Oser-dépine function: Created by Users. C++ Oser-depine function depine their own function. A user-depine function group Code to perform
a specific task & that group of Code is given a name (identifiers)! When the function is invoked from any part of the progress, it out executes the codes, depine in the body of the function. C++ function Decleration The syntex of function decleration is Estrantype functionName (proceedest blacements. 11 punction body

Here, Excumple of frenchion decleration. Void greet () & Cource" Hello Tejas"; · The name of function is greet · The Eeturn type of the function is void.
· The empty paramer moouns it dosen't any paratro et 65. · The function body is written inside ? ?. Note: Will learn about getern Type & pasamers leter. zoologood with at Calling 9 function 19 1 Seriamient mainment In the abhove program, we have declear a function named greets. Toll use the greets. function, we need to coulit. Courthe abhove greet function. int moin() 3 11 couring of prenction

We can pass a value progroserer while calling The function. 1 2/d sais san black sais int nums in+ n= 7; Calling the function 1) 15 passed to the function as argument pointhoro (n): serion 0; QUE ME ETANDE & CALIST CYCLETA & Show AT mility rought of the state state of the stat the extent to the state of the state of the state of Quick Quiz: Demonestracere the function with parcemeters. Return 3 teeternent This means a function is nort getterning any value. It's also possible to gettern a value from a feenction. for this, we need to Ispecify the serumtype of the function during function decleration. Then, the getern steetement can be used to germ vale.

For Example,

int add (int a, intb)?

Esturn (a+b);

Here, we have down type int inside of wold.
This toleans that the ferration seturn on intivalue.

The code gettern (a+b); getterns the gure of

the getern steetement denotes that the function has ended. Any coole after getern inside the function is not executed.

Function prototype:

Should be after before the function decleration However, if we want to depine a punction call apres the function call, we need to use the function prototype, for example.

void add (int, int);

Returntype-functionName (dataTypes, dataTypes);

OC++ Function Types



C++ Osers - depined function Types.

apparaches you can tecke to solve a single problem cusing function.

for better understanding of orguments & Forming functions, user-deprined functions can be caregorised as:

- · Function with no orgument & no geturn
- · function with no organient but setum value
- · Function With argument but no gettern value.
- · function with orgunners & geturn value.

Consider a situation in which you have to check the points number. This problem's solved below by making user-depine function in 4 different ways as follows.