Lecture - 25

Functions in C (Part 3)

Sugramming in C

# include < stdio. h> macros # define PI 3.14 -foat, seton type = float In parameter (formal) -> or is a float variable float area = PI x on x on; restro arres. Return Mes = con(irde (10.0) Croby foint int main ( ) § foat x= 10.0, res; de clare ar Circle (10.0) 314,000,000 Mes = 314.000000 JL= 10.0 -function Call printf ("%p", mes); Actual Parameter (Argument) reform o; 314.000000

function (all: No value ( Empty Parameter) Void greet ( ) { Spintf (" (nowd Morning"); Int main ( ) { greet () - Dood Morning greet () greet () return o:

\* Junction are recusable, that means we can write the function ones & call it many times.

A particular block.

Abstraction: Hiding the date

Void Denmeter (float x, float y) { \* Whenever we Call a junction floot per = 2x (x+y); the actual Arguments provided printf ("The Perimeter of nectangle is %f", per); during the function call are the copy of the values of int main() {

float a=10, b=20;

x

y actual Bource. Denmeter (a, b); -> a=10, b=20 भू अपूर जिल्ला व अपूर है। जिल्ला व अपूर है। Denmeter (a+2, b+2); Actual Parameter stebun 0; 12 22 There will be no change in the value of a & b

Void fundion (int x, int y) & Subside f(x)  $x = 10, \quad y = 20$ Inside function 21 X++; y++; 2=21, 5-11 printf("%d %d", x,y); 21 11 = orthut int main ()} Positional Argument intx=10, y=20; function (20, 10) function (y x); \* The Variable defined declared þintf ("%d %d", X,y); arguments in side a function have only oretorn 0; block level Scope, Whenever the I'm terminates then the variables abo destroyed. गच्य

Void simple Interest (int b, int t, float n = 0.10) Ine defined -> default Argument The anguments that are defined during function definition print f ("The simple interest in %f", si); inside the fr parameters are 100000 5 0.10 Called default argument int main () { , Simple Inderest (x, y) - >= 100000, t=5, n=0.10 int x= 100000, y=5; float z = 0.7: 3 Simple Interest (21, y, 2); simple Interest (x, y); override the default argument 2= 100000 Simple Interest (x, y, z); return 0; (JL= 0.4)

\* It the value for default orgument don not bass during function call it will that the default value defined for default argument.

Otherwise, it will surpose (override) the value for default organisational replace with new value passed.

\* The default arguments are defined within rightmost position (docation) in function parameter.

\* When over we Call a fundion and bus the argument then the function takes the Copies of boursed values, that is called as "Call by value"

Call by reference hlobal Scopa Kecunium

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