A deligite (4)

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous) Dundigal, Hyderabad – 500 043 midial ' within

LABORATORY WORK SHEET radius 10 when I was keepen

Date: . 08 108 2022.

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ta rothing

Roll No: 21951A6754 Name:	Programma Anna	
Exp No: 10. Experiment Name:	PRE PROCESSOR DIRECTIVES	
1.	Mary J. H. Her Handy of 1 1 3d miles	
Algorithm	Source Code Program Execution	T- 4-1

1,01 - 93.	Algorithm	Di pource Court	Program Execution	- Visco	Total	
12	Preparation	Performance in the Lab		Results and Error Analysis		
Max. Marks	4	4	4	an gild wah	11401	20
Obtained	4	4	40.010	suntilling si	111-11	120

Signature of L

START WRITING FROM HERE:

Define a macro with some parameter to compute the volume of a sphere. Write a C program using this marco to compute the volume for isphere of iradius, 5,10 and 15 meters. #includestations so ps prode to es or critis # include< math h > #adine Pi 3.142 and which wood new orbitope which #define volume (+) ((4/3.0) * Pi * Pow (8,3)) void main() { of include < letion be int r; float V3 scanf ("Ird", &r); moun milate th v=volume (r)? printf("In Volume of the sphere v= 10.34, v); il deline meet of Vent mountly

```
OUT PUT:
   Spheres of radius 5 volume is 314.150000
              radius 10 volume is 1256.600000
  Spheres
           Of
  Spheres of radius 15 volume is 2827.350000
6. Define a macro that receives an averay and the
   number of elements in the averay as varquements.
   write a c program for using this macro to print
   the elements of the worray.
  # include <stdio.h>
  # define printarray (a, 1)
   int 1=0;
   while (i<1) &
   printf ("1.54", a[i]);
     and allowed a secretary of more than a second of the property
   void main () & many and wall
   int a [10] = 810, 25,47,56,89,34,68,45,28,038;
   printarray (0,10);
                                     All nille
   OUTPUT: 10 25 47 56 89 34 68 45 28 03 halanill
  Write symbolic constants for the binary withemetic
   operators +, -, * and 1. Write in corregion to illustrate
   the use of these symbolic constants.
                                           3 Ouround Line
  #include <stdio.h>
  # define plus +
  # define minus -
  # define mul *
  #define div/ v unity sit is similal in
  # define mod %
  void main() &
```

int a=20, b=30;

printf ("In Addition=olod", a Plus b);

printf ("In Subtraction=olod", a minus b);

printf ("In Multiplication=olod", a mul b);

printf ("In Division=olod", a div b);

printf ("In Modulus=olod", a mod b);

}

OUTPUT:

fladition = 50

Subtraction = 40

Multiplication = 600

Division = 0

Modulus = 20

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