**ASSIGNMENT-2**

1.Print “your name–SOA University”.

PROGRAM

#include <stdio.h>

int main()

{

printf("Name:- SOA University\n");

return 0;

}

OUTPUT

Name:- SOA University

2.Print your name, mobile number and email id in different lines.

PROGRAM

#include <stdio.h>

int main()

{

printf("Name:- Sourav Dutta\n");

printf("Mobile Number:- 7008569412\n");

printf("Email Id:- xyz@gmail.com\n");

return 0;

}

OUTPUT

Name:- Sourav Dutta

Mobile Number:- 7008569412

Email Id:- [xyz@gmail.com](mailto:xyz@gmail.com)

3.Get int, float and char as input, then print the same.

PROGRAM

#include <stdio.h>

int main()

{

int Integer;

float Float;

char Character;

printf("Enter a character:");

scanf("%c", &Character);

printf("Enter an integer number:");

scanf("%d", &Integer);

printf("Enter a float number:");

scanf("%f", &Float);

printf("The Character Entered Is:%c\n", Character);

printf("The Integer Number Entered Is:%d\n", Integer);

printf("The Float Number Entered Is:%f\n", Float);

return 0;

}

OUTPUT

Enter a character:a

Enter an integer number:5

Enter a float number:1.23

The Character Entered Is:a

The Integer Number Entered Is:5

The Float Number Entered Is:1.230000

4.Find the cube of the given number.

PROGRAM

#include<stdio.h>

int main()

{

int number,cube;

printf("Enter a number:");

scanf("%d", &number);

cube= number\*number\*number;

printf("Cube of a number is %d", cube);

return 0;

}

OUTPUT

Enter a number:5

Cube of a number is 125

5.Find the sum of five given numbers.

PROGRAM

#include<stdio.h>

int main()

{

int a=5, b=10, c=15, d=20, e=25, sum=0;

sum= a+b+c+d+e;

printf("The sum of 5 numbers are:%d", sum);

return 0;

}

OUTPUT

The sum of 5 numbers are:75

6.Find a student average mark given mark1 and mark2.

PROGRAM

#include<stdio.h>

int main()

{

int mark1=75, mark2=85;

float average;

average= (mark1+mark2)/2;

printf("The average mark of a student is:%f", average);

return 0;

}

OUTPUT

The average mark of a student is:80.000000

7.Calculate the total fine charged by library for late-return books. The charge is 0.20 INR for 1 day.

PROGRAM

#include<stdio.h>

int main()

{

int late\_days;

float chr\_per\_day=0.20, total\_fine;

printf("Enter the no. of days returned late:");

scanf("%d", &late\_days);

total\_fine= chr\_per\_day\*late\_days;

printf("The total fine charged by the library is %f", total\_fine);

return 0;

}

OUTPUT

Enter the no. of days returned late:5

The total fine charged by the library is 1.000000

8.You had bought a nice shirt which cost Rs.29.90 exclusive of15% discount. Count the discounted price for the shirt.

PROGRAM

#include<stdio.h>

int main()

{

float act\_cost=29.90, discount=0.15, dis\_cost, nett\_price;

dis\_cost= act\_cost\*discount; // Discounted Cost Of The Shirt

nett\_price= act\_cost-dis\_cost; // Actual Price

printf("The actual price of the t-shirt is %f", nett\_price);

return 0;

}

OUTPUT

The actual price of the t-shirt is 25.414999

9.Swap two numbers with third variable.

PROGRAM

#include<stdio.h>

int main()

{

int a,b,temp;

printf("Enter the value of a:");

scanf("%d", &a);

printf("Enter the value of b:");

scanf("%d", &b);

temp= a;

a= b;

b= temp;

printf("The value of a after swapping is %d\n", a);

printf("The value of b after swapping is %d\n", b);

return 0;

}

OUTPUT

Enter the value of a:5

Enter the value of b:10

The value of a after swapping is 10

The value of b after swapping is 5

10.Swap two numbers without third variable(By + and –(or) By \* and /)

PROGRAM (By + And –)

#include<stdio.h>

int main()

{

int a, b;

printf("Enter the value of a:");

scanf("%d", &a);

printf("Enter the value of b:");

scanf("%d", &b);

a= a+b;

b= a-b;

a= a-b;

printf("The value of a after swapping is %d\n", a);

printf("The value of b after swapping is %d\n", b);

return 0;

}

OUTPUT

Enter the value of a:5

Enter the value of b:10

The value of a after swapping is 10

The value of b after swapping is 5

ANOTHER METHOD

PROGRAM (By \* And /)

#include<stdio.h>

int main()

{

int a, b;

printf("Enter the value of a:");

scanf("%d", &a);

printf("Enter the value of b:");

scanf("%d", &b);

a= a\*b;

b= a/b;

a= a/b;

printf("The value of a after swapping is %d\n", a);

printf("The value of b after swapping is %d\n", b);

return 0;

}

OUTPUT

Enter the value of a:5

Enter the value of b:10

The value of a after swapping is 10

The value of b after swapping is 5