programming and structures using c

Assignment 2

**1. Print “your name-SOA university”.**

#include <stdio.h>

int main()

{

printf("SAGARIKA BEHERA-SOA UNIVERSITY");

return 0;

}

output:

SAGARIKA BEHERA-SOA UNIVERSITY

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

#include <stdio.h>

int main()

{

printf("name-SAGARIKA BEHERA\n");

printf("mobile number-8093703294\n");

printf("email [id-sagarikabehera1998@gmail.com](mailto:id-sagarikabehera1998@gmail.com)");

return 0;

}

output:

name-SAGARIKA BEHERA

mobile number-8093703294

email [id-sagarikabehera1998@gmail.com](mailto:id-sagarikabehera1998@gmail.com)

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

#include <stdio.h>

int main()

{

int a;

float b;

char c;

printf("enter int,float,char values:\n");

scanf("%d%f%c",&a,&b,&c);

printf("int:%d,float:%f,char:%c",a,b,c);

return 0;

}

output:

enter int,float,char values:

10 21 r

int:10,float:21.000000,char: r

**4.find the cube of the given number**.

#include <stdio.h>

int main()

{

int a,cube;

printf("enter a value to calculate the cube:\n");

scanf("%d",&a);

cube=a\*a\*a;

printf("the cube of %d is: %d",a,cube);

return 0;

}

output:

enter a value to calculate the cube:

4

the cube of 4 is: 64

**5.find the sum of five given numbers.**

#include <stdio.h>

int main()

{

int a,b,c,d,e, sum;

printf("enter five numbers to calculate the sum:\n");

scanf("%d%d%d%d%d",&a,&b,&c,&d,&e);

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

printf("the sum is:%d",sum);

return 0;

}

output:

enter five numbers to calculate the sum:

1 2 3 4 5

the sum is:15

**6.find a student average mark given mark1 and mark2.**

#include <stdio.h>

int main()

{

int m1, m2;

float avg;

printf("enter mark1 and mark2 to calculate average marks of the student:\n");

scanf("%d%d",&m1,&m2);

avg=(m1+m2)/2;

printf("the students average marks is:%f",avg);

return 0;

}

output:

enter mark1 and mark2 to calculate average marks of the student:

67 89

the students average marks is:78.000000

**7.calculate the total fine charged by library for late return books . the charge is 0.20 INR for 1 day**.

#include <stdio.h>

int main()

{

int late\_days;

float charge=0.20,fine;

printf(" the number of days late for library book return:\n");

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

fine=late\_days\*charge;

printf("the fine charged for late-return book:%f INR",fine);

return 0;

}

output:

the number of days late for library book return:

8

the fine charged for late-return book:1.600000 INR

**8.you had bought a nice shirt which cost Rs.29.90 exclusive of 15% discount. Count the discounted price for the shirt.**

#include <stdio.h>

int main()

{

float CP=29.90,NP,Discounted\_price;

int Discount=15;

Discounted\_price = CP\*Discount/100;

NP = CP - Discounted\_price;

printf("the the net price of the shirt is : %f",NP);

return 0;

}

output:

the the net price of the shirt is : 25.414999

**9.swap two numbers with third variable.**

#include <stdio.h>

int main()

{

int num1,num2,t;

printf("enter two numbers to be swapped:\n");

scanf("%d%d",&num1,&num2);

printf("numbers before swap,\n number1:%d\n number2:%d\n",num1,num2);

t=num1;

num1=num2;

num2=t;

printf("numbers after swap,\n number1:%d\n number2:%d\n",num1,num2);

return 0;

}

output;

enter two numbers to be swapped:

23 32

numbers before swap,

number1:23

number2:32

numbers after swap,

number1:32

number2:23

**10.swap two numbers without third variable.**

#include <stdio.h>

int main()

{

int num1,num2;

printf("enter two numbers to be swapped:\n");

scanf("%d%d",&num1,&num2);

printf("numbers before swap,\n number1:%d\n number2:%d\n",num1,num2);

num1=num1+num2;

num2=num1-num2;

num1=num1-num2;

printf("numbers after swap,\n number1:%d\n number2:%d\n",num1,num2);

return 0;

}

output:

enter two numbers to be swapped:

23 32

numbers before swap,

number1:23

number2:32

numbers after swap,

number1:32

number2:23