Assignment -2

Write a C program for the following problem statements

Q1. Print "your name –SOA University".

Program :

```
#include<Stdio.h>
int main()
{
   printf("Saima nasim – SOA University");
   return 0;
}
```

Output :

Saima nasim –SOA University

Q2. Print your name ,mobile number and email id in different lines.

Program :

```c
#include<stdio.h>
int main()
{
  printf("NAME : Saima Nasim\n");
  printf("MOBILE NUMBER : 7070244700");
  printf("EMAIL ID : saimanasim@gmail.com\n");
  return 0;
}
```

Output :

NAME : Saima Nasim

MOBILE NUMBER : 7070244700

EMAIL ID : saimanasim@gmail.com

Q3. <u>Get int ,float and char as input ,then print the same.</u>

```c
#include<stdio.h>
int main()
{

    char a[100];
    int b;
    float c;
    printf("enter the integer value :");
    scanf("%d",&b);
    printf("enter the decimal value :");
    scanf("%f",&c);
    printf("enter the character value :");
    scanf("%s",&a);
    printf("\t entered value\n integer -%d\n decimal-%f\n character-%s",b,c,a);
    return 0;
}
```

<u>Output</u> :
enter the integer value :abc
enter the decimal value :enter the character value :   entered value
 integer -0
 decimal-0.000000
 character-abc

Q4. Find the cube of the given number.

```c
#include <stdio.h>
int main()
{
   int cube,a;
   printf("\n enter a number");
   scanf("%d",&a);
  cube=a*a*a;
  printf("\n cube of given number %d :",cube,a);
  return 0;
}
```

Output :

enter a number 2

 cube of given number 8

Q5. <u>Find the sum of five given number.</u>

```c
#include <stdio.h>
int main()
 {
    int b=0,c,i;
    for(i=1;i<6;i++)  {
     printf("enter %d number :",i);
     scanf("%d",&c);
     b=c+b;
 }

    printf("sum of five number is %d",b);
    return 0;
}
```

Output :
enter 1 number :3
enter 2 number :4
enter 3 number :5
enter 4 number :2
enter 5 number :1
sum of five number is 15

Q6. Find the student average mark given mark1 and mark2.

```c
#include<stdio.h>
int main()
{
    int m1,m2,avgmark;
    printf("enter the student marks");
    scanf("%d%d",&m1,&m2 );
    avgmark=(m1+m2)/2;
    printf("average mark of stdent is %d",avgmark);
    return(0);
}
```

Output :

enter the student marks40

40

average mark of stdent is 40

Q7. Calculate the total fine charged by library for late return books.The charge is 0.02INR for 1day.

```c
#include<stdio.h>
int main()
{
    float b;
    const float a=0.2;
    printf("enter number of days of late return book\n");
    scanf("%f",&b);
    b=b*a;
    printf("the total fine charged is :%f INR",b);
    return(0);
}
```

Output :

enter number of days of late return book

5

the total fine charged is :1.000000 INR

Q8. You had bought a nice shirt which cost Rs.29.90 exclusive of 15% discount. Count the discounted price for the shirt.

```c
#include<stdio.h>
int main()
{
float cost=29.90;
float discount=0.15;
  float netprice,discountedcost;
  discountedcost=discount*cost;
netprice=cost-discountedcost;
 printf("net price for the shirt :%f INR",netprice);
 return(0);
}
```

Output :

net price for the shirt :25.414999 INR

- Q9. Swap two numbers with third variable.

```c
#include <stdio.h>
int main(){
    float a,b,c;
    printf("enter two number to perform swap\n");
    printf("first number:");
    scanf("%f",&a);
    printf("second number:");
    scanf("%f",&b);
    printf("before swap\n");
    printf("%0.1f%0.1f",a,b);
    c=a;
    a=b;
    b=c;
    printf("\n after swap\n");
    printf("%0.1f%0.1f",a,b);
    return 0;}
```

Output :
enter two number to perform swap
first number:3
second number:4
before swap
3.04.0
 after swap
4.03.0

Q10. <u>Swap two numbers without third variable (By+and-(or)By*and/)</u>

```c
#include <stdio.h>
int main()
 {
    float a,b,;
    printf("enter two number to perform swap\n");
    printf("first number:");
  scanf("%f",&a);
    printf("second number:");
    scanf("%f",&b);
    printf("before swap\n");
  printf("%0.1f%0.1f",a,b);
  a=b-a;
  b=b-a;
  a=a+b;
  printf("\n after swap\n");
  printf("%0.1f%0.1f",a,b);
  return 0;}
```

Output :
enter two number to perform swap
first number:6
second number:7
before swap
6.07.0
 after swap
7.06.0