Q.1 Print “your name–SOA University”.

```
#include<stdio.h>
int main(){
        printf("Mrinmayee Nanda - SOA University");
        return 0;
}
```

output:

Mrinmayee Nanda - SOA University

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

```
#include<stdio.h>
int main(){
        printf("Name:Mrinmayee \n");
        printf("Mobile number:8917411520 \n");
        printf("Email-id:mrinmayeenanda98@gmail.com \n");
        return 0;
}
```

output:

Name:Mrinmayee

Mobile number:8917411520

Email-id:mrinmayeenanda98@gmail.com

Q.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 a char value: ");
	scanf("%c",&c);
	printf("enter a integer value: ");
	scanf("%d",&a);
	printf("enter a float value: ");
	scanf("%f",&b);
	printf("The character value is: %c \n", c);
	printf("The integer value is: %d \n", a);
	printf("The float value is: %f \n ", b);

	return 0;
}
```

output:

```
enter a char value: h
enter a integer value: 2
enter a float value: 1.2
The character value is: h
The integer value is: 2
The float value is: 1.200000
```

Q.4 Find the cube of the given number.

```
#include<stdio.h>
int main(){
        int a;
        int cube;
        printf("Enter a number: ");
        scanf("%d",&a);
        cube = a*a*a;
        printf("Cube of the number is: %d",cube);
        return 0;
}
```

output:

```
Enter a number: 2
Cube of the number is: 8
```

Q.5 Find the sum of five given numbers.

```
#include<stdio.h>
int main(){
        int no, sum=0;
        printf("Enter five numbers: ");
        for(int i=0;i<5;i++){
        scanf("%d",&no);
        sum+=no;
```

```
}
        printf("Sum of numbers is: %d",sum);
        return 0;
}
```

output:

```
Enter five numbers: 1
2
3
4
5
Sum of numbers is: 15
```

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

```
#include<stdio.h>
int main(){
        float mark1, mark2, average;
        printf("Enter mark1 and mark2: ");
        scanf("%f %f",&mark1,&mark2);
        average=mark1+mark2/2;
        printf("Average mark is: %f",average);
        return 0;
}
```

output:

```
Enter mark1 and mark2: 30.5
```

40.2

Average mark is: 50.599998

Q.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(){
        float no_of_days,charges=0.20,fine;
        printf("Enter late no. of days: ");
        scanf("%f",&no_of_days);
        fine = no_of_days*charges;
        printf("Fine is: %f",fine);
        return 0;
}
```

output:

Enter late no. of days: 5

Fine is: 1.000000

Q.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 cost=29.90, discount=0.15, discounted_cost, net_price;
        discounted_cost=discount*cost;
```

```
        net_price=cost-discounted_cost;
        printf("Net price of the shirt is %f ",net_price);
        return 0;
}
```

output:

Net price of the shirt is 25.414999

Q.9 swap two numbers with third variable.

```
#include<stdio.h>
int main(){
        int a=10, b=20, c=0;
        printf("Before swapping numbers are a = %d b = %d \n", a,b);
   c=a;
   a=b;
   b=c;
   printf("After swapping numbers are a = %d b = %d",a,b);
        return 0;
}
```

output:

Before swapping numbers are a = 10 b = 20

After swapping numbers are a = 20 b = 10

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

```
#include<stdio.h>
 int main()
{
        int a=10, b=20;
        printf("Before swapping a=%d b=%d",a,b);
        a=a+b;//a=30 (10+20)
        b=a-b;//b=10 (30-20)
        a=a-b;//a=20 (30-10)
        printf("\nAfter swapping a=%d b=%d",a,b);
        return 0;
}
```

output:

Before swapping a=10 b=20

After swapping a=20 b=10

PRACTICE QUESTIONS:

1.FIND THE FIBONACCI SERIES TILL TERM<=1000.

```
#include<stdio.h>
int main(){
        int i, a=0, b=1, show=0;
        int n = 1000;
        printf("%d %d ",a, b);
                show=a+b;
```

```
            while(show<=n){
            printf("%d ",show);
            a=b;
            b=show;
            show=a+b;
            }
return 0;
}
```

output: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987

2.CHECK WHETHER A NUMBER IS APRIME NUMBER OR NOT.

```
#include<stdio.h>
int main(){
        int n,i,m=0,flag=0;
            printf("Enter the number to check prime:");
            scanf("%d",&n);
            m=n/2;
            for(i=2;i<=m;i++)
            {
            if(n%i==0)
            {
            printf("Number is not prime");
            flag=1;
            break;
```

```
        }
        }
        if(flag==0)
        printf("Number is prime");
        return 0;
}
```

Output: Enter the number to check prime:5

Number is prime

3.COUNT THE OCCURRENCE OF A DIGIT IN A NUMBER.

```
#include <stdio.h>
 int main()
{
   int num,digit,count=0;
   int rem;
        printf("\nEnter any number: ");
   scanf("%d",&num);
   printf("\nEnter any digit to Search: ");
   scanf("%d",&digit);

   while(num!=0){
        rem=num%10;
        if(rem==digit){
                count++;
```

```
            }
            num=num/10;
        }
        printf("\nTotal occurrence of digit [ %d ] \n",count);
        return count;

}
```

Output: Enter any number: 4442854

Enter any digit to Search: 4

Total occurrence of digit [4]

4.GET MARKS OF THREE SUBJECTS AND DECLARE THE RESULTS. IF THE MARKS>=35 IN ALL THE SUBJECTS THE STUDENT PASSES ELSE FAILS.

```
#include<stdio.h>
int main(){
        float sub1, sub2, sub3, result;
        printf("marks in sub1: ");
        scanf("%f",&sub1);
        printf("marks in sub2: ");
        scanf("%f",&sub2);
        printf("marks in sub3: ");
```

```
        scanf("%f",&sub3);
        result=(sub1+sub2+sub3)/3;
        if(result>=35){
                printf("pass");
        }
        else
        printf("fail");
        return 0;
}
```

Output: marks in sub1: 20.6

marks in sub2: 52

marks in sub3: 85

pass