Assignment 2

1. Print "your name – SOA University".

```
Start here X   name.c X

1      // 1. Print "your name - SOA University"
2      main()
3      {
4          printf("\"Md Sayem Saqueeb - SOA University\"");
5          getch();
6      }
7
```

OUTPUT

```
"C:\Users\Mohammad Sayem\Documents\PDSC MCA\name.exe"
"Md Sayem Saqueeb - SOA University"
```

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

```
Start here X   name.c X   *name_email_number.c X

1      //2. Print your name, mobile number and email id in different lines.
2      main()
3      {
4          printf("Name - Md Sayem Saqueeb\n\nMobile Number - 6370446537\n\nEmail Id - sayemworldx@gmail.com");
5          getch();
6      }
7
```

OUTPUT

```
"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\name_email_number.exe"
Name - Md Sayem Saqueeb

Mobile Number - 6370446537

Email Id - sayemworldx@gmail.com
```

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

```c
//3. Get int, float and char as input, then print the same.
#include<stdio.h>
main()
{
    int n1; float n2; char c;
    printf("Enter an integer : ");
    scanf("%d",&n1);
    printf("Enter floating point number : ");
    scanf("%f",&n2);
    fflush(stdin);
    printf("Enter a character : ");
    scanf("%c",&c);
    printf("\n\nYou have entered :\n");
    printf("Integer Number : %d\nFloating point Number : %f\nCharacter : %c",n1,n2,c);
    getch();
}
```

OUTPUT

```
"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\int_float_char.exe"

Enter an integer : 26
Enter floating point number : 35.265
Enter a character : k


You have entered :
Integer Number : 26
Floating point Number : 35.264999
Character : k
```

4. Find the cube of the given number.

Start here ✕ | name.c ✕ | name_email_number.c ✕ | int_float_char.c ✕ | *cube.c ✕

```c
//4. Find the cube of the given number.
main()
{
    int n=15;
    printf("Cube of %d is %d",n,n*n*n);
    getch();
}
```

OUTPUT

"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\cube.exe"

```
Cube of 15 is 3375
```

5. Find the sum of five given numbers.

Start here ✕ | name.c ✕ | name_email_number.c ✕ | int_float_char.c ✕ | c

```c
//5. Find the sum of five given numbers.
main()
{
    int a[5],i,sum=0;
    printf("Enter 5 numbers : ");
    for(i=0; i<5; i++)
        scanf("%d",&a[i]);
    for(i=0; i<5; i++)
        sum=sum+a[i];
    printf("Sum is : %d",sum);
    getch();
}
```

OUTPUT

"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\sum.exe"

```
Enter 5 numbers : 25
36
12
35
89
Sum is : 197
```

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

```
1      //6. Find a student average mark given mark1 and mark2.
2      main()
3    {
4          float m1,m2;
5          printf("Enter mark 1 and mark 2 : ");
6          scanf("%f%f",&m1,&m2);
7          printf("Average is : %f",(m1+m2)/2);
8          getch();
9    }
```

OUTPUT

"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\avg.exe"

```
Enter mark 1 and mark 2 : 98
93
Average is : 95.500000
```

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

```c
/*7. Calculate the total fine charged by library for late-return books.
0.20 INR for 1 day.*/
main()
{
  int days;
  float fine=0.20;
  printf("Number of days late: ");
  scanf("%d",&days);
  printf("Total Fine : %f",days*fine);


  getch ();
}
```
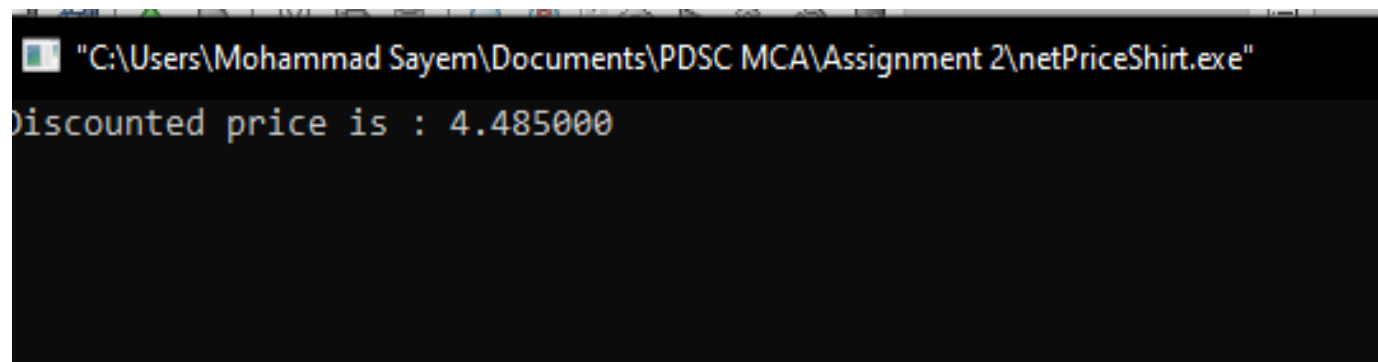
OUTPUT

"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\lateFine.exe"

```
Number of days late: 5
Total Fine : 1.000000
```

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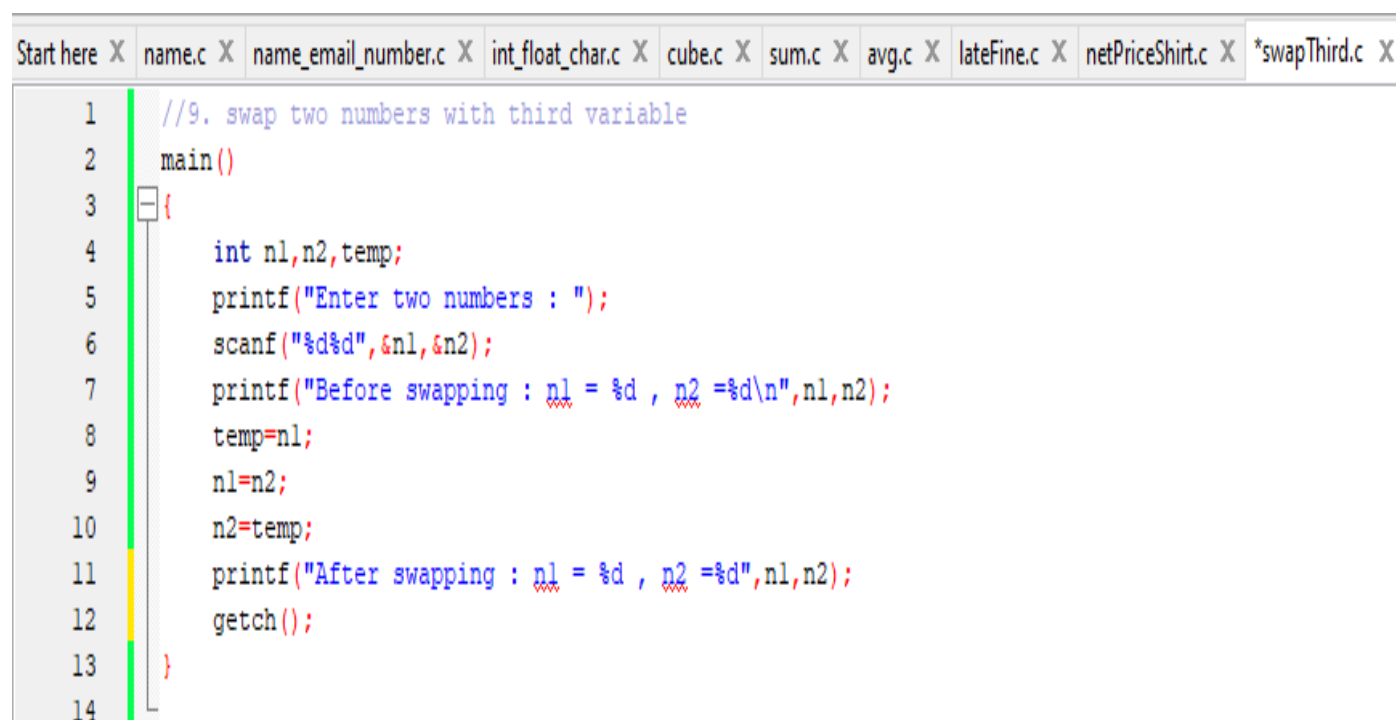Count the discounted price for the shirt.

```c
/* 8. You had bought a nice shirt which cost Rs.29.90 exclusive of 15% discount. Count
the discounted price for the shirt */
main()
{
    float cost,disPercent,disAmount;
    cost=29.90; // cost after discount of 15 percent
    disPercent=15; //15 percent discount
    disAmount=29.90*0.15;
    printf("Discounted price is : %f",disAmount);
    getch();
}
```
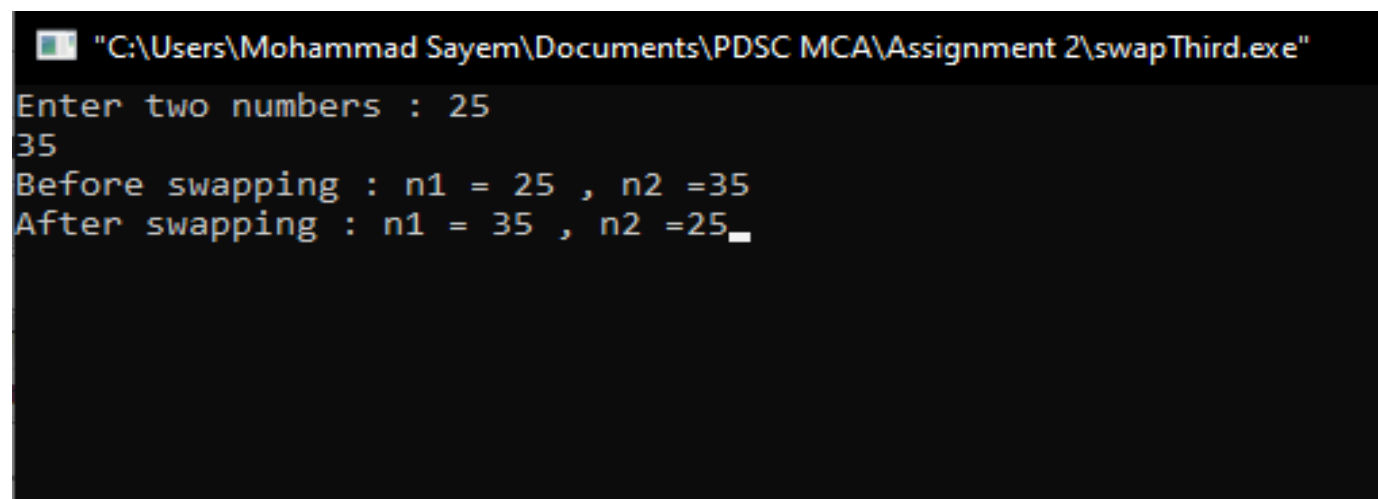
OUTPUT

"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\netPriceShirt.exe"

Discounted price is : 4.485000

9. swap two numbers with third variable.

Start here X name.c X name_email_number.c X int_float_char.c X cube.c X sum.c X avg.c X lateFine.c X netPriceShirt.c X *swapThird.c X

```c
1    //9. swap two numbers with third variable
2    main()
3    {
4        int n1,n2,temp;
5        printf("Enter two numbers : ");
6        scanf("%d%d",&n1,&n2);
7        printf("Before swapping : n1 = %d , n2 =%d\n",n1,n2);
8        temp=n1;
9        n1=n2;
10       n2=temp;
11       printf("After swapping : n1 = %d , n2 =%d",n1,n2);
12       getch();
13   }
14
```

OUTPUT

"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\swapThird.exe"

Enter two numbers : 25
35
Before swapping : n1 = 25 , n2 =35
After swapping : n1 = 35 , n2 =25

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

```
1    //10. swap two numbers without third variable (By + and - (or) By * and /)
2    main()
3    {
4        int n1,n2;
5        printf("Enter two numbers : ");
6        scanf("%d%d",&n1,&n2);
7        printf("Before swapping : n1 = %d , n2 =%d\n",n1,n2);
8        n1=n1*n2;
9        n2=n1/n2;
10       n1=n1/n2;
11       printf("After swapping : n1 = %d , n2 =%d",n1,n2);
12       getch();
13   }
```

OUTPUT

```
"C:\Users\Mohammad Sayem\Documents\PDSC MCA\Assignment 2\swap.exe"

Enter two numbers : 51
98
Before swapping : n1 = 51 , n2 =98
After swapping : n1 = 98 , n2 =51
```