
Assignment 2

Write a C program for the following problem statements

Q1.Print"your name –SOA University".

```
#include<stdio.h>

int main()
{
    printf("your name-SOA University");
}
```

OUTPUT-

Your name-SOA University

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

```
#include<stdio.h>

int main()
{
    printf("Name -Somabrata sahuo\n");
    printf("email id-xyz@gmail.com\n");
    printf("Mobile number-7205856077\n");
    return(0);
}
```

```
}
```

OUTPUT-

Name-Somabrata sahoo

email id-xyz@gmail.com

Mobile number-7205856077

Q3. Get int, float and char as input, then print the same.

```
# include <stdio.h>
```

```
int main ()
```

```
{
```

```
int ivalue;
```

```
float fvalue;
```

```
char cvalue;
```

```
printf("Input integer, float and character values: ");
```

```
scanf ("%d%f%c", &ivalue, &fvalue, &cvalue);
```

```
printf ("Integer value: %d\n", ivalue) ;
```

```
printf ("Float value: %f\n", fvalue) ;
```

```
printf ("Character value: %c\n", cvalue) ;
```

```
return 0;
```

```
}
```

OUTPUT-

```
Input integer, float and character values: 2 3.5 x
Integer value: 2
Float value: 3.500000
Character value: x
```

Q4.Find a cube of the given number.

```
#include <stdio.h>

int main()
{
    int number,cube;
    printf("enter a number:");
    scanf("%d",&number);
    cube= number*number*number;
    printf("cube of number is:%d",cube);
    return 0;
}
```

OUTPUT-

Enter a number-4

Cube of number-64

Q5.Find the sum of five given numbers.

```
#include <stdio.h>

int main()
{
    int b=0,c;
    for(int i=1;i<=5;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 : 3

Enter 3 number : 3

Enter 4 number : 3

Enter 5 number : 3

sum of five number is 15

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

```
#include <stdio.h>

int main()
{
    float m1,m2;
    printf("Enter the student marks of subject 1 & 2 :\n");
    scanf("%f%f",&m1,&m2);
    m1=(m1+m2)/2;
    printf("Average mark of student is %f",m1);
    return(0);
}
```

OUTPUT

Enter the student marks of subject 1 & 2 :

67 78

Average mark of student is 72.500000

Q7.Calculate the total fine charged by library for late-returns books.the charge is 0.20 INR for day.

```
#include <stdio.h>

int main()
```

```

{
    float b;
    const float a=0.20;
    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 discount price for the shirt.

```

#include <stdio.h>

int main()
{
    float cost=29.90;
    float discount=0.15;

```

```

float discounted_cost, idc;

idc=cost*discount;

discounted_cost=cost-idc;

printf("The discounted cost price for the shirt is:%f
INR",discounted_cost);

return(0);

}

```

OUTPUT-

The discounted cost price for the shirt is:25.414999 INR

Q9.Swap two numbers with third variable

```

#include <stdio.h>
int main()
{
    int A,B,temp;
    printf("type any two number to swap: \n");
    printf("\n A= ");
    scanf("%d",&A);
    printf("\n B= ");
    scanf("%d",&B);
    printf("number before swap \n");
    printf("\nA=%d \t B=%d",A,B);
    temp=A;
    A=B;
    B=temp;
    printf("\n numbers after swapping \n");
    printf("\nA=%d \tB=%d",A,B);
    return(0);
}

```

```
}
```

OUTPUT-

```
PS C:\Users\l\Desktop\soom\cc++> cd "c:\Users\l\Desktop\soom\cc++\" ; if ($?)
type any two number to swap:

A= 3

B= 5
number before swap

A=3      B=5
numbers after swapping

A=5      B=3
PS C:\Users\l\Desktop\soom\cc++> █
```

Q10.swap two numbers without third variable,

```
#include<stdio.h>
int main()
{
    int x,y;
    printf("enter the value of x and y\n");
    scanf("%d %d",&x,&y);
    printf("before swapping numbers:%d %d\n",x,y);
    x=x+y;
    y=x-y;
    x=x-y;
    printf("after swapping:%d &d",x,y);
    return 0;
}
```

OUTPUT-

```
enter the value of x and y
8 7
before swapping numbers:8 7
after swapping:7 &d
PS C:\Users\l\Desktop\soom\cc++> █
```