

C-Programs for the following problem statements

P1 - Print “your name – SOA University”

Code:

```
// Print “Your name
#include <stdio.h>

int main()
{
    // Code for printing your name
    printf("Sabyasachi Rajguru – SOA University");
    return 0;
}
```

OUTPUT – Sabyasachi Rajguru – SOA University

P2 - Print your name, mobile number and email id in different lines

Code:

```
#include <stdio.h>

int main() {
    // Write C code here

    printf("Name- Sabyasachi Rajguru.\nMobile No- 7894733708.\nEmail id-
sabya.king1@gmail.com.");
    return 0;
}
```

OUTPUT: Name- Sabyasachi Rajguru.
Mobile No- 7894733708.
Email id- sabya.king1@gmail.com.

P3 - Get int, float and char as input, then print the same

```
#include <stdio.h>

int main()
{
    int Integer;

    char Character;

    float Float;


    printf(" Please Enter a Character : ");

    scanf("%c",&Character);


    printf("Please Enter an Integer Value : ");

    scanf("%d",&Integer);


    printf("Please Enter Float Value : ");

    scanf("%f",&Float);


    printf("\nThe Integer Value that you Entered is: %d",Integer);

    printf("\nThe Character that you Entered is: %c",Character);

    printf("\nThe Float Value that you Entered is: %f",Float);


    return 0;
```

OUTPUT:

```
Please Enter a Character : o
Please Enter an Integer Value : 4
Please Enter Float Value : 2.1
The Integer Value that you Entered is: 4
The Character that you Entered is: o
The Float Value that you Entered is: 2.100000
```

P4- Find the cube of the given number.

```
#include<stdio.h>

int main()
{
    int number, cube;

    printf("\n Please Enter any integer Value : ");
    scanf("%d", &number);

    cube = number * number * number;
    printf("\n Cube of a given number %d is = %d", number, cube);

    return 0;
}
```

OUTPUT:

Please Enter any integer Value : 78

Cube of a given number 78 is = 474552

P5- Find the sum of five given numbers

```
#include<stdio.h>

int main()
{
    int num1, num2, num3, num4, num5, sum;

    printf("Please Enter 1st number : ");
    scanf("%d",&num1);

    printf("\nPlease Enter 2nd number : ");
    scanf("%d",&num2);

    printf("\nPlease Enter 3rd number : ");
```

```

scanf("%d",&num3);
printf("\nPlease Enter 4th number : ");
scanf("%d",&num4);
printf("\nPlease Enter 5th number : ");
scanf("%d",&num5);

//scanf("%d","%d","%d","%d","%d",&num1,&num2,&num3,&num4,&num5);

sum = num1+num2+num3+num4+num5;

printf("Sum of the given numbers is = %d", sum);

return 0;
}

```

OUTPUT:

```

Please Enter 1st number : 69
Please Enter 2nd number : 78
Please Enter 3rd number : 89
Please Enter 4th number : 41
Please Enter 5th number : 52
Sum of the given numbers is = 329

```

P6 - Find a student average mark given mark1 and mark2

```

#include<stdio.h>

int main() {
int Mark1=360, Mark2=415, Avg;
Avg=Mark1+Mark2;
printf("Average Mark is:%d",Avg);

return 0;
}

```

OUTPUT:

Average Mark is: 775

P7- Calculate the total fine charged by library for late-return books. The charge is

0.20 INR for 1 day.

CODE:

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

```
int main() {
```

```
int finecharge = 0.20, days, tf;
```

```
printf("Please enter the number of days the book has been kept: ");
```

```
scanf("%d",&days);
```

```
tf=days * finecharge;
```

```
printf("The Total Fine charge is: %d",tf);
```

```
return 0;
```

```
};
```

OUTPUT:

Please enter the number of days the book has been kept: 78

The Total Fine charge is: 15.600000

P8- You had bought a nice shirt which cost Rs.29.90 exclusive of 15% discount. Count the discounted price for the shirt.

CODE:

OUTPUT:

Please enter the number of days the book has been kept: 10

The Total Fine charge is: 2.000000

P8- Calculate the total fine charged by library for late-return books. The charge is 0.20 INR for 1 day.

CODE:

```
#include<stdio.h>

int main() {

float CP=29.90, DR=0.15;

float DA, NettPrice;

DA = CP * DR;

printf("Discount Price is: %f", DA);

NettPrice=CP-DA;

printf("\nNett Price of the shirt is: %f",NettPrice);

return 0;

}
```

OUTPUT:

Discount Price is: 4.485000

Nett Price of the shirt is: 25.414999

P9 - Swap two numbers with third variable.

CODE:

```
#include <stdio.h>

int main()
{
    int var1, var2, temp;
    printf("Enter first number: ");
    scanf("%d",&var1);
    printf("Enter second number: ");
    scanf("%d",&var2);
    printf("Before Swapping nFirst number = %d \nSecond number = %d", var1, var2);
    temp = var1;
    var1 = var2;
    var2 = temp;
    printf("\nAfter SwappingnFirst variable = %d \nSecond variable = %d", var1, var2);
    return 0;
}
```

OUTPUT:

Enter first number: 55

Enter second number: 78

Before Swapping nFirst number = 55

Second number = 78

After SwappingnFirst variable = 78

Second variable = 55

P10- swap two numbers without third variable (By + and – (or) By * and /).

CODE:

(Using + and -)

```
#include<stdio.h>

int main() {
int a=10, b=20;

printf("Before swap 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 swap a=%d b=%d",a,b);

return 0;

}
```

(Using * and /)

```
#include<stdio.h>

#include<stdlib.h>
int main() {
int a=10, b=20;

printf("Before swap a=%d b=%d",a,b);

a=a*b;//a=200 (10*20)
b=a/b;//b=10 (200/20)
a=a/b;//a=20 (200/10)

system("cls");

printf("\nAfter swap a=%d b=%d",a,b);

return 0; }
```

OUTPUT:

Before swap a=10 b=20

After swap a=20 b=10