

```
1  #include<stdio.h>
2  int main (){
3
4  //Taking input of all the values
5      printf("Input:\n ") ;
6
7  // 1.1
8      int input1;
9      printf("\nEnter the number: ");
10     scanf("%d",&input1);
11
12 // 1.2
13     float input2;
14     printf("\nEnter the number: ");
15     scanf("%f",&input2);
16
17 // 1.3
18     float input3;
19     printf("\nEnter the number: ");
20     scanf("%f",&input3);
21
22 // 1.4
23     float input4;
24     printf("\nEnter the number: ");
25     scanf("%f",&input4);
26
27 // 1.5
28     int input5;
29     printf("\nEnter the number: ");
30     scanf("%d",&input5);
31
32
33 // 1.6
34     char name[60];
35     printf("\nEnter Your name: ");
36     scanf("%s",name);
37
38 // 1.7
39     char name1[60];
40     printf("\nEnter Your college name: ");
41     scanf("%s",&name1);
42     printf("\nOutput\n");
43
44 //Printing of all inputs taken
45
46 /*1.1*/ printf("\n%d",input1);
47 /*1.2*/ printf("\n%0.4f",input2);
48 /*1.3*/ printf("\n%0.2f",input3);
49 /*1.4*/ printf("\n%0.2f",input4);
50 /*1.5*/ printf("\n%d*%d",input5,input5);
51 /*1.6*/ printf("\n%s",name);
52 /*1.7*/ printf("\n%s",name1);
53
54     return 0;
55
56 }
```

Input:

Enter the number: 59

Enter the number: 3.5678456

Enter the number: 5.3267

Enter the number: 5664.57567456

Enter the number: 35345364

Enter Your name: Chaitanya

Enter Your college name: S.V.National.Institute.of.Technology.Surat

Output

59

3.5678

5.33

5664.58

35345364*35345364

Chaitanya

S.V.National.Institute.of.Technology.Surat

```
1  #include<stdio.h>
2  int main(){
3      float rad,dia,area,cir;
4      printf("Enter the radius of the circle: ");
5      scanf("%f",&rad);
6      dia=2*rad;
7      area=3.14*(rad*rad);
8      cir= 2*3.14*rad;
9      printf("\n Diameter is: %f",dia);
10     printf("\n Circumference is: %f",cir);
11     printf("\n Area is: %f",area);
12     return 0;
13 }
```

Enter the radius of the circle: 3

Diameter is: 6.000000

Circumference is: 18.840000

Area is: 28.260000

```
1  #include<stdio.h>
2  int main(){
3
4      float s1,s2,s3,s4,s5,sum,perc;
5
6      printf("Enter the subject1 Marks: ");
7      scanf("%f",&s1);
8
9      printf("Enter the subject2 Marks: ");
10     scanf("%f",&s2);
11
12     printf("Enter the subject3 Marks: ");
13     scanf("%f",&s3);
14
15     printf("Enter the subject4 Marks: ");
16     scanf("%f",&s4);
17
18     printf("Enter the subject5 Marks: ");
19     scanf("%f",&s5);
20
21     sum=s1+s2+s3+s4+s5;
22     perc=(sum/5);
23
24     printf("\nTotal marks: %f",sum);
25     printf("\nTotal percentage: %f",perc);
26
27     if ((s1<35)|| (s2<35)|| (s3<35)|| (s4<35)|| (s5<35))
28     {
29         printf("\nYour failed");
30     }
31
32
33     return 0;
34 }
```

```
PS E:\fcp lab\c> cd "e:\fcp lab\c\" ; if ($?) { gcc 3.c -o 3 } ; if ($?) { .\3 }
Enter the subject1 Marks: 50
Enter the subject2 Marks: 30
Enter the subject3 Marks: 100
Enter the subject4 Marks: 100
Enter the subject5 Marks: 100

Total marks: 380.000000
Total percentage: 76.000000
Your failed
PS E:\fcp lab\c> █
```

C 4.c > main()

```
1  #include<stdio.h>
2  int main(){
3      float cel,far;
4      printf("Enter the farhenheit value: ");
5      scanf("%f",&far);
6      cel=(far-32)*(0.556);
7      printf("\nThe temp in celsius is: %f",cel);
8      return 0;
9  }
```

Enter the farhenheit value: 45

The temp in celsius is: 7.228000


```
1  #include<stdio.h>
2  int main(){
3      int a,b,c,s1,s2,s3;
4
5      printf("Enter the value of a: ");
6      scanf("%d",&a);
7
8      printf("\nEnter the value of b: ");
9      scanf("%d",&b);
10
11     printf("\nEnter the value of c: ");
12     scanf("%d",&c);
13     //5.1
14     s1=(a*a)+(2*a*b)+(b*b);
15     printf("\na2+2ab+b2= %d",s1);
16
17     //5.2
18     s2=(a*a)-(2*a*b)+(b*b);
19     printf("\na2-2ab+b2= %d",s2);
20
21     //5.3
22     s3=(a*a*a)+(b*b*b)+(c*c*c)-(3*a*b*c);
23     printf("\na3+b3+c3-3abc= %d",s3);
24     return 0;
25 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
PS E:\fcp lab\c> cd "e:\fcp lab\c\" ; if ($?) { gcc 5.c -o 5 } ; if ($?) { .\5 }
```

Enter the value of a: 1

Enter the value of b: 2

Enter the value of c: 3

$(a^2)+2ab+(b^2)= 9$

$(a^2)-2ab+(b^2)= 1$

$(a^3)+(b^3)+(c^3)-3abc= 18$