1.

```
#include <stdio.h>

int main() {

int input;

printf("Enter the number \n");
scanf("%d" , &input);

printf("%d", input);

return 0;
}
```

```
C:\himanshu\assignment_3>gcc q1_1.c -o q1_1.exe
C:\himanshu\assignment_3>q1_1.exe
Enter the number
59
59
```

2.

```
#include <stdio.h>

int main() {
    float input;

printf("Enter the float number \n");

scanf("%f", &input);

printf("%0.4f", input);

return 0;

}
```

```
C:\himanshu\assignment_3>gcc q1_2.c -o q1_2.exe
C:\himanshu\assignment_3>q1_2.exe
Enter the float number
3.5678456
3.5678
```

```
#include <stdio.h>

int main() {
    float input;

printf("Enter the float number \n");
    scanf("%f", &input);

printf("%0.2f", input);

return 0;
}
```

```
C:\himanshu\assignment_3>gcc q1_3.c -o q1_3.exe
C:\himanshu\assignment_3>q1_3.exe
Enter the float number
5.3267
5.33
```

```
#include <stdio.h>

int main() {
    float input;

    printf("Enter the float number \n");
    scanf("%f", &input);

    printf("%0.2f", input);

return 0;
}
```

```
C:\himanshu\assignment_3>gcc q1_4.c -o q1_4.exe
C:\himanshu\assignment_3>q1_4.exe
Enter the float number
5664.57567456
5664.58
```

5.

```
#include <stdio.h>

int main() {
    int input;

    printf("Enter the number \n");
    scanf("%d", &input);
    printf("%d * %d", input,input);

    return 0;
}
```

```
C:\himanshu\assignment_3>gcc q1_5.c -o q1_5.exe
C:\himanshu\assignment_3>q1_5.exe
Enter the number
35345364
35345364 * 35345364
```

6.

```
#include <stdio.h>

int main() {

char str[100];

printf("Enter your name \n");
gets(str);
printf("%s", str);

return 0;

return 0;
```

```
C:\himanshu\assignment_3>gcc q1_6.c -o q1_6.exe
C:\himanshu\assignment_3>q1_6.exe
Enter your name
himanshu kumare
himanshu kumare
```

```
C:\himanshu\assignment_3>gcc q1_7.c -o q1_7.exe
C:\himanshu\assignment_3>q1_7.exe
Enter your institute name
S. V. National Institute of Technology, Surat
S. V. National Institute of Technology, Surat
```

Q2)

```
#include <stdio.h>

int main() {

float PI = 3.14, radius;
printf("Enter the radius \n");
scanf("%f", &radius);

float diameter, area, circum;

diameter = 2 * radius;
area = PI * radius * radius;
circum = 2 * PI * radius;

printf("Diameter : %0.3f \nArea : %0.3f \nCircumference : %0.3f \n", diameter, area, circum);

return 0;
}
```

```
C:\himanshu\assignment_3>gcc q2.c -o q2.exe
C:\himanshu\assignment_3>q2.exe
Enter the radius
7
Diameter : 14.000
Area : 153.860
Circumference : 43.960
```

Q3)

```
#include <stdio.h>
int main() {
    int marks[5];
    int x=0;
printf("Enter the marks obtained in Maths : ");
    scanf("%d", &marks[x++]);
    printf("\nEnter the marks obtained in Physics : ");
    scanf("%d", &marks[x++]);
    scanf("%d", &marks[x++]);
    printf("\nEnter the marks obtained in English : ");
scanf("%d", &marks[x++]);
    scanf("%d", &marks[x++]);
    int total_marks = 0;
    for(int i=0; i<5; i++) {
         if(marks[i] < 35) {
    printf("Sorry you've failed in the exam");</pre>
             return 0:
         total_marks += marks[i];
    float percent = total_marks/5;
    printf("Total marks obtained : %d \n", total_marks);
printf("Percentage obtained : %0.2f\n", percent);
    return 0;
```

```
C:\himanshu\assignment_3>gcc q3.c -o q3.exe
C:\himanshu\assignment_3>q3.exe
Enter the marks obtained in Maths : 70

Enter the marks obtained in Physics : 80

Enter the marks obtained in Chemistry : 84

Enter the marks obtained in English : 96

Enter the marks obtained in Computer : 99

Total marks obtained : 429

Percentage obtained : 85.00
```

Q4)

```
#include <stdio.h>

int main() {

printf("Enter the farenheit temperature : ");
float f;
scanf("%f", &f);

float c =(f-32) * (0.5555);

printf("\nTemperature in celsius is %0.2f", c);
return 0;
}
```

```
C:\himanshu\assignment_3>gcc q4.c -o q4.exe
C:\himanshu\assignment_3>q4.exe
Enter the farenheit temperature : 100
Temperature in celsius is 37.77
```

Q5)

```
#include <stdio.h>

int main() {
    int a,b,c;

printf("Enter the value of a : ");
    scanf("%d", &a);
    printf("\nEnter the value of b : ");
    scanf("%d", &b);

float sum;

sum = a*a + 2*a*b + b*b;

printf("%0.3f", sum);

float }
```

```
C:\himanshu\assignment_3>gcc q5_1.c -o q5_1.exe
C:\himanshu\assignment_3>q5_1.exe
Enter the value of a : 2
Enter the value of b : 3
25.000
```

```
#include <stdio.h>

#include <stdio.h>

int main() {
    int a,b,c;

printf("Enter the value of a : ");

scanf("%d", &a);
printf("\nEnter the value of b : ");

scanf("%d", &b);

float sum;

sum = a*a - 2*a*b + b*b;

printf("%0.3f", sum);

printf("%0.3f", sum);
```

```
C:\himanshu\assignment_3>gcc q5_2.c -o q5_2.exe
C:\himanshu\assignment_3>q5_2.exe
Enter the value of a : 3
Enter the value of b : 5
4.000
```

```
#include <stdio.h>

int main() {
    int a,b,c;

printf("Enter the value of a : ");
    scanf("%d", &a);
    printf("\nEnter the value of b : ");
    scanf("%d", &b);
    printf("\nEnter the value of c : ");

scanf("%d", &c);

float sum;

sum = a*a*a + c*c*c + b*b*b - 3*a*b*c;

printf("%0.3f", sum);

}
```

```
C:\himanshu\assignment_3>gcc q5_3.c -o q5_3.exe
C:\himanshu\assignment_3>q5_3.exe
Enter the value of a : 4

Enter the value of b : 5

Enter the value of c : 6
45.000
```