

Task 1:

```
printf("\n===== task 1 ===== \n");
//write a program to take num and print even and print sum of even
float a,b,c;
printf("Enter a : ");
scanf("%f",&a);
printf("Enter b : ");
scanf("%f",&b);
printf("Enter c : ");
scanf("%f",&c);
float right_part, root_1,root_2,imag;
right_part=(b*b)-(4*a*c);

switch(right_part > 0){
    case 1:
        root_1 = (-b + sqrt(right_part) / (2 * a));
        root_2 = (-b - sqrt(right_part) / (2 * a));
        printf("\nRoot 1 = %.2f \nRoot 2 = %.2f", root_1, root_2);
        break;
    case 0:
        switch(right_part < 0){
            case 1: //True
                root_1 = root_2 = -b / (2 * a);
                imag = sqrt(-right_part) / (2 * a);
                printf("\nRoot 1 = %.2f + %.2f \nRoot 2 = %.2f - %.2f", root_1, imag, root_2, imag);
                break;
            case 0: // False (right_part = 0)
                root_1 = root_2 = -b / (2 * a);
                printf("\nRoot 1 = %.2f \nRoot 2 = %.2f", root_1, root_2);
                break;
        }
    }
}
```

===== task 1 =====

Enter a : 1

Enter b : 1

Enter c : 1

Root 1 = -0.50 + 0.87

Root 2 = -0.50 - 0.87

If you want try again enter

Task 2:

```
case 2 :
printf("\n\n===== task 2 ===== \n");
// write a program to count digit of number

float x,y,z;
printf("Enter x : ");
scanf("%f",&x);
printf("Enter y : ");
scanf("%f",&y);
printf("Enter z : ");
scanf("%f",&z);

float r_part, root1,root2,img;
r_part=(y*y)-(4*x*z);

if(r_part > 0){
    root1 = (-y + sqrt(r_part) / (2 * x));
    root2 = (-y - sqrt(r_part) / (2 * x));
    printf("\nRoot 1 = %.2f \nRoot 2 = %.2f", root1, root2);
}
else if(r_part < 0){
    root1 = root2 = -y / (2 * x);
    img = sqrt(-r_part) / (2 * x);
    printf("\nRoot 1 = %.2f + %.2f \nRoot 2 = %.2f - %.2f", root1, img, root2, img);
}
else{
    root1 = root2 = -y / (2 * x);
    printf("\nRoot 1 = %.2f \nRoot 2 = %.2f", root1, root2);
}
```

```
===== task 2 =====
Enter x : 1
Enter y : 1
Enter z : 1

Root 1 = -0.50 + 0.87
Root 2 = -0.50 - 0.87
```

Task 3:

```
printf("\n\n==== task 3 ===== \n");
// write a program to get number of row and print the day and
int row;
printf("Enter number of row : ");
scanf("%d",&row);
int i , j ;
for(i=0 ; i < row ; i++){
    for(j=0 ; j < (row*2-1) ; j++){
        if(j<((row-1)-i) || j>((row-1)+i) ){
            printf(" ");
        }
        else{
            printf("*");
        }
    }
    printf("\n");
}
```

```
==== task 3 =====
Enter number of row : 5
    *
  ***
 *****
*****
*****
```