

#### Case1

```
Program calculate root of Equation  $ax^2+bx+c = 0$   
Enter parameter a : 0  
Enter parameter b : 0  
Enter parameter c : 5  
Error! invalid equation  
Enter y to calculate again or n to exit.y
```

#### Case2

```
Program calculate root of Equation  $ax^2+bx+c = 0$   
Enter parameter a : 0  
Enter parameter b : -5  
Enter parameter c : 4  
This is linear equation  
Answer of  $-5x+4=0$  is  
 $x = 0.8$   
Enter y to calculate again or n to exit.y
```

#### Case3

```
Program calculate root of Equation  $ax^2+bx+c = 0$   
Enter parameter a : -2  
Enter parameter b : -5  
Enter parameter c : -2  
root of  $-2x^2 -5x -2 = 0$  is  
 $x_1 = -2$   
 $x_2 = -0.5$   
Enter y to calculate again or n to exit.y
```

#### Case4

```
Program calculate root of Equation  $ax^2+bx+c = 0$   
Enter parameter a : 2  
Enter parameter b : 2  
Enter parameter c : 5  
root of  $2x^2 +2x +5 = 0$  is complex number  
 $x_1 = -0.5 + 1.5i$   
 $x_2 = -0.5 - 1.5i$   
i is square root of -1  
Enter y to calculate again or n to exit.x  
Enter y to calculate again or n to exit.n  
  
End Program
```