```
Q.1
<u>Task 1</u>:
Code:
#include<stdio.h>
void main()
{
  int X,Y,quadrant;
  printf("Input the values for X and Y coordinate: ");
  scanf("%d %d",&X,&Y);
  if(X>0&&Y>0)
  {
    quadrant=1;
 }
  else if(X<0&&Y>0)
  {
    quadrant=2;
  else if(X<0&&Y<0)
  {
    quadrant=3;
  }
  else
  {
    quadrant=4;
```

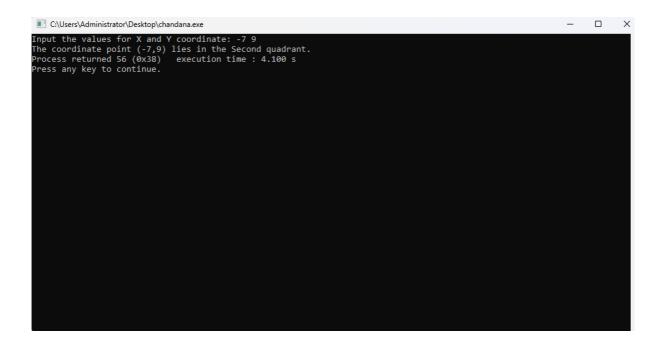
switch(quadrant)

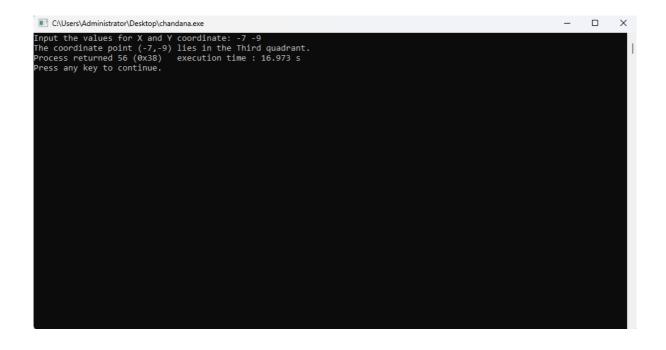
{

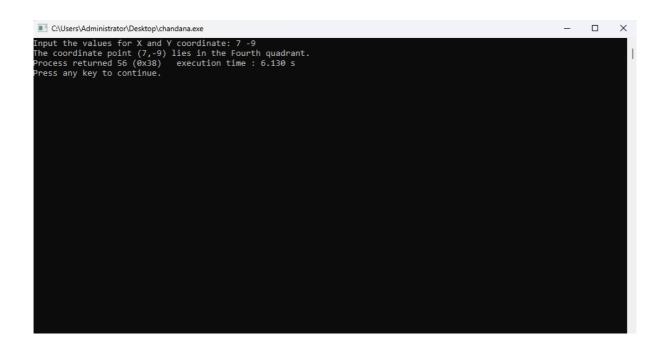
```
case 1:
  {
    printf("The coordinate point (%d,%d) lies in the First quadrant.",X,Y);
  }
break;
case 2:
  {
    printf("The coordinate point (%d,%d) lies in the Second quadrant.",X,Y);
  }
break;
case 3:
  {
    printf("The coordinate point (%d,%d) lies in the Third quadrant.",X,Y);
  }
break;
case 4:
  {
    printf("The coordinate point (%d,%d) lies in the Fourth quadrant.",X,Y);
  }
break;
}
```

}

Output:







```
<u>Task 2</u>:
Code:
#include<stdio.h>
#include<math.h>
void main()
{
  int a,b,c,type;
  printf("Enter the length of the three sides of the triangle: ");
  scanf("%d %d %d",&a,&b,&c);
  if(a==b\&\&b==c\&\&c==a)
    type=1;
  }
  else if(a!=b&&b!=c&&c!=a)
  {
    type=2;
  }
  else
  {
    type=3;
  }
  switch(type)
  {
  case 1:
    {
      printf("This is an equilateral triangle.");
    }
```

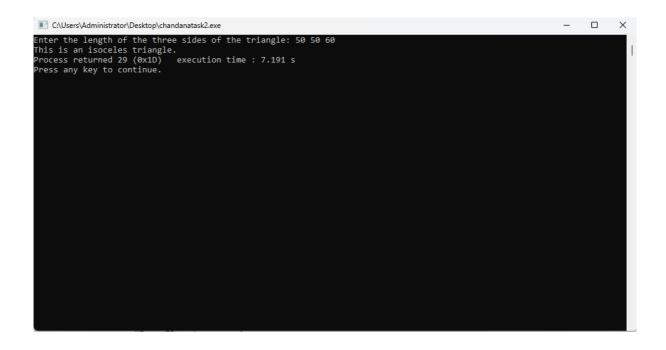
```
break;
case 2:
    {
        printf("This is a scalene triangle.");
     }
break;
case 3:
     {
        printf("This is an isoceles triangle.");
     }
break;
}
```

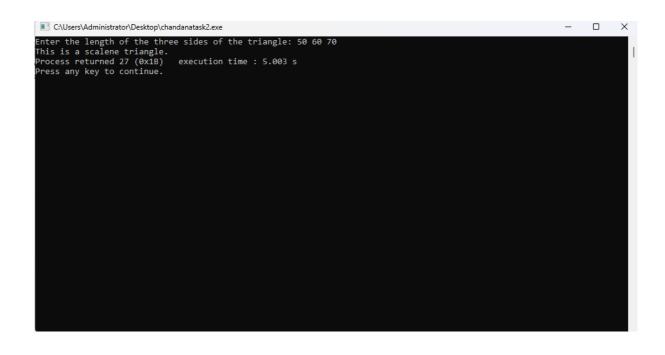
Output:

```
Enter the length of the three sides of the triangle: 50 50 50 This is an equilateral triangle.

Process returned 32 (0x20) execution time: 5.187 s

Press any key to continue.
```





Code:

```
#include<stdio.h>

void main()
{
    int distance,velocity,acceleration,time;
    printf("Enter the time taken to cover the distance(in s): ");
    scanf("%d",&time);
    printf("\nEnter the velocity of the car(in m/s): ");
    scanf("%d",&velocity);
    printf("\nEnter the acceleration of the car(in m/s^2): ");
    scanf("%d",&acceleration);
    printf("\nThe distance covered by the car would be(in m):
    %d",distance=(velocity*time)+(0.5*acceleration*pow(time,2)));
}
```

Output:

```
■ CAUsers\Administrator\Desktop\question2.exe

Enter the time taken to cover the distance(in s): 1

Enter the velocity of the car(in m/s): 1

Enter the acceleration of the car(in m/s^2): 10

The distance covered by the car would be(in m): 6

Process returned 50 (0x32) execution time : 12.696 s

Press any key to continue.
```