



Visual Studio interface showing the development of a C# program named "problem3". The code in Program3.cs defines a class Problem3 with a static Main method that prompts the user for X and Y coordinates and a radius, then checks if a point lies outside a circle.

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6 namespace Problem3
7 {
8     class Problem3
9     {
10         static void Main(string[] args)
11         {
12             ;
13             int x, y, radius;
14             int radius_square, coordinates_calculation;
15             Console.WriteLine("Enter X coordinates of circle:");
```

The console output shows the program execution with the following prompts and user input:

```
Enter X coordinates of circle:
6
Enter Y coordinates of circle:
4
Enter Radius of circle:
7
Points Lies Outside The Circle
```

The Error List is empty, indicating no issues found. The taskbar shows the system clock at 9:12 PM on 9/6/2021.

Visual Studio interface showing the development of a C# program named "problem4". The code in Problem4.cs defines a class Problem4 with a static Main method that prompts the user for a character and checks if it is a capital letter, small letter, or digit.

```
12 ;
13 char a;
14 int b;
15 Console.WriteLine("Enter A Character:");
16 a = Convert.ToChar(Console.ReadLine());
17 b = (int)a;
18 if (b >= 65 && b <= 90)
19 {
20     Console.WriteLine("Entered Character Is Capital Letter");
21 }
22 if (b >= 97 && b <= 122)
23 {
24     Console.WriteLine("Entered Character Is Small Letter");
25 }
26 if (b >= 48 && b <= 57)
27 {
28     Console.WriteLine("Entered Character Is Digit:");
```

The console output shows the program execution with the following prompts and user input:

```
Enter A Character:
D
Entered Character Is Capital Letter:
```

The Error List is empty, indicating no issues found. The taskbar shows the system clock at 9:15 PM on 9/6/2021.









