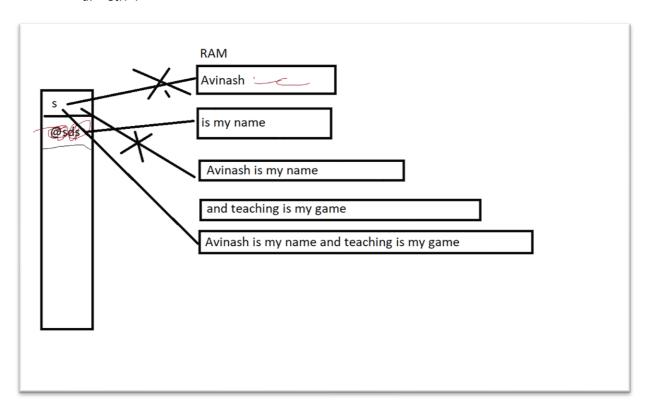
## Date: 27-Dec-2021 | Session 1: 10:30 to 1:15

- 1. Benefits of C#/Java
  - a. Encapsulation
  - b. Garbage Collection
- 2. What Java vs JavaScript?
- 3. Why C#
  - a. To provide a seamless windows experience to Platform independent s/w development
  - b. Similar to Java in many aspects
  - c. But works better in Windows
  - d. Today, it is arguably better than Java
- 4. Software Development Tools & IDE
- 5. Install Visual Studio 2022 Community Edition
- 6. Create Basic C# Console Application
- 7. Command Line Arguments
- 8. String and int datatype
- 9. Strings are immutable
- 10. Visual Studio Magic
  - a. Ctrl+.



## 11. Sample Program



Program.cs

Date: 27-Dec-2021 | Session 2: 14:30 to 15:30

- 1. for
- 2. foreach
- 3. If
- 4. Convert.ToInt32
- 5. Compile time vs run time errors
- 6. Int, string, float, double data types
- 7. Read & Display data on console.
- 8. Multiple Main functions in Console Project
  - a. Set Startup Object in Project Properties
- 9. Arguments to Main function is not mandatory
- 10. Code Auto Format -> Ctrl-K,Ctrl+D
- 11. Defining a class

```
DEBUGGING EXERCISES
   3.1 Will the given program produce a compile-time or runtime error?
  class MainExample
     public static void Main()
         Console. WriteLine("Main Example");
         return 1;
 3.2 Find error(s), if any, in the following program:
 class Reading
    public static void Main ()
        Console. Write ("Enter Name");
        string name - ReadLine ();
        Console. WriteLine (name);
3.3 What is wrong with the following program?
   public static void Main ()
       double, y, x = 10.0;
      y = sqrt (x);
      System.Console.Write (y);
```

## PROGRAMMING EXERCISES

- 3.1 Write a program to read two strings from the keyboard using the ReadLine statements and display them on one line using two Write statements.
- 3.2 Write a program that takes the line of text

  John F Kennedy
  as a command line input and displays the following output:

  Kennedy John F
- 3.3 Define two classes, one with a method to display the string "C Sharp" and the other to display the string "Programming". Write a program using these classes to display a single line output as follows:
  C Sharp Programming
- 3.4 Write a program that assigns two double type values to two variables, computes their sum, assigns the result to a third variable, and displays all the three values in one line of output.
- 3.5 Write a program to display the following pattern on the screen:

