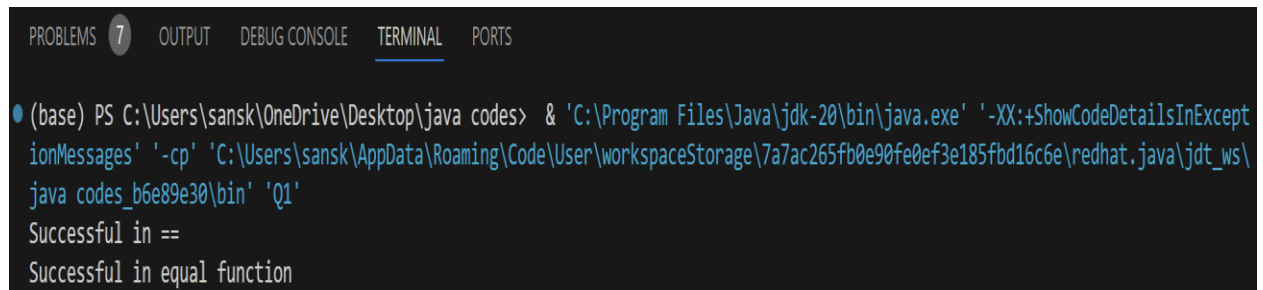


# LAB 2

Q1. Write a method that takes two String arguments and uses all the boolean comparisons to compare the two Strings and print the results. For the == and !=, also perform the equals() test. In main(), call your method with some different String objects.

```
public class Q1 {
    void compare(String String1,String String2){
        if(String1==String2)
        {
            System.out.println("Successful in ==");
        }
        if(String1.equals(String2))
        {
            System.out.print("Successful in equal function");
        }
        else if(String1!=String2)
        {
            System.out.print("Successful in !=" );
        }
        else
        {
            System.out.println("Unsuccessful Run");
        }
    }
    public static void main(String a[])
    {
        String String1="Ram";
        String String2="Ram";
        Q1 obj=new Q1();
        obj.compare(String1,String2);
    }
}
```

## Output :



The screenshot shows a terminal window with a dark background. At the top, there are tabs for 'PROBLEMS' (with a '7' icon), 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is selected and underlined), and 'PORTS'. The terminal content shows a PowerShell command being executed in a base prompt. The command runs the Java executable with specific flags and a classpath. The output of the command is displayed on the following lines.

```
(base) PS C:\Users\sansk\OneDrive\Desktop\java codes> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\sansk\AppData\Roaming\Code\User\workspaceStorage\7a7ac265fb0e90fe0ef3e185fbd16c6e\redhat.java\jdt_ws\java codes_b6e89e30\bin' 'Q1'
Successful in ==
Successful in equal function
```

Q2. Create a class called Dog containing two Strings: name and says. In main(), create two dog objects with names "spot" (who says, "Ruff!") and "scruffy" (who says, "Wurf!"). Then display their names and what they say. Also create a new Dog reference and assign it to spot's object. Test for comparison using and equals() for all references.

```
public class Dog {
    String name;
    String says;
    void display()
    {
        System.out.println(name + " says " + says);
    }
    public static void compare(Object String1, Object String2){
        if(String1==String2)
        {
            System.out.println("Successful in ==");
        }
        if(String1.equals(String2))
        {
            System.out.print("Successful in equal function");
        }
        else if(String1!=String2)
        {
            System.out.print("Successful in !=" );
        }
        else
        {
            System.out.println("Unsuccessful Run");
        }
    }
}
public static void main(String a[])
{
    Dog obj1=new Dog();
    Dog obj2=new Dog();
    obj1.name="Spot";
    obj2.name="Scruffy";
    obj1.says="Ruff";
    obj2.says="Wurf";
    obj1.display();
    obj2.display();
    Dog obj3 = new Dog();
    obj3=obj1;
```

```
        Dog.compare(obj1,obj3);  
    }  
}
```

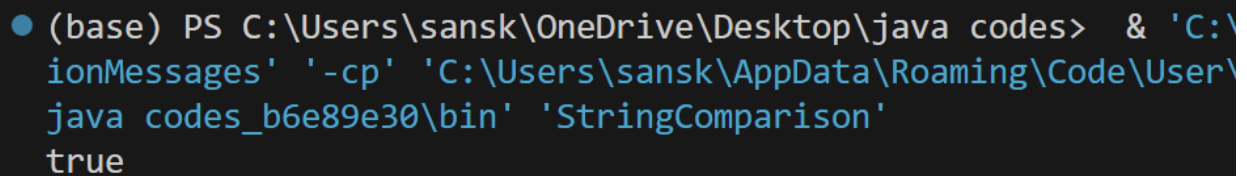
## Output :

```
● (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> & 'C:\Program Files\Java\jdk-20\bin\javac.exe' -cp 'C:\Users\sansk\AppData\Roaming\Code\User\workspaceStorage\7a7ac265fb0e90e90e90e90e90e90e90\java codes_b6e89e30\bin' 'Dog'  
Spot says Ruff  
Scruffy says Wurf  
Successful in ==  
Successful in equal function  
○ (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> █
```

### Q3. String comparison

```
class StringComparison {
    boolean compare(String String1,String String2){
        if(String1==String2)
        {
            return true;
        }
        return false;
    }
    public static void main(String a[])
    {
        String String1="Ram";
        String String2="Ram";
        StringComparison obj=new StringComparison();
        System.out.println(obj.compare(String1,String2));
    }
}
```

### Output :



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
● (base) PS C:\Users\sansk\OneDrive\Desktop\java codes> & 'C:\Users\sansk\AppData\Roaming\Code\User\
ionMessages' '-cp' 'C:\Users\sansk\AppData\Roaming\Code\User\
java codes_b6e89e30\bin' 'StringComparison'
true
```