Problem:- 2: Minimum Number

```java
public class MinNumberByRecursion {
    public static int findMin(int[] arr, int n) {

        if (n == 1) {
            return arr[0];
        }
        int min = findMin(arr, n - 1);
        if (arr[n - 1] < min) {
            return arr[n - 1];
        } else {
            return min;
        }
    }

    Run | Debug
    public static void main(String[] args) {
        int[] arr = {3, 5, 7, 2, 8};
        int n = arr.length;
        int min = findMin(arr, n);
        System.out.println(min);
    }
}
```

PROBLEMS 6   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purpose
s. If you want to re-enable it, run 'Import-Module PSReadLine'.

PS C:\Users\ankit\OneDrive\Desktop\JavaProjects>  & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+S
howCodeDetailsInExceptionMessages' '-cp' 'C:\Users\ankit\AppData\Roaming\Code\User\workspaceStorage\c43fe19b61644415bac2bd
473ced73d9\redhat.java\jdt_ws\JavaProjects_d3439f5\bin' 'MaxNumberbyusingRecursion'
8
PS C:\Users\ankit\OneDrive\Desktop\JavaProjects>
```

Problem:- 4: String Palindrome

```java
public class Reverse_String {
    public static String reverse(String str){
        if(str.isEmpty()){
            return str;
        }
        return str.charAt(str.length()-1) + reverse(str.substring(beginIndex:0, str.length()-1));
    }
    Run | Debug
    public static void main(String[] args) {
        String str="madam";
        String str1=reverse(str);
        System.out.println(str1);
        if(str.equals(str1)){
            System.out.println(x:"Palindrome");

        }
        else{
            System.out.println(x:"Not Palindrome");
        }
    }
}
```

PROBLEMS 6   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, run 'Im
port-Module PSReadLine'.

PS C:\Users\ankit\OneDrive\Desktop\JavaProjects>  & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp
' 'C:\Users\ankit\AppData\Roaming\Code\User\workspaceStorage\c43fe19b61644415bac2bd473ced73d9\redhat.java\jdt_ws\JavaProjects_d3439f5\bin' 'Reverse_String'
madam
Palindrome
PS C:\Users\ankit\OneDrive\Desktop\JavaProjects>
```