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Batch : A4

Q: Write a Java program to create an array list, add some colors (strings): 1. print out the collection 2. insert an element into the array list at the first position 3.remove the third element from an array list 4.search for an element in an array list.

Code :-

```
import java.util.*;

public class Solution {

    public static void main(String[] args) {

        // Create an ArrayList of colors

        ArrayList<String> colors = new ArrayList<String>();

        // Add colors to the ArrayList

        colors.add("White");
        colors.add("Yellow");
        colors.add("Blue");
        colors.add("Black");
        colors.add("Violet");

        // 1. Print out the collection

        System.out.println("Collection of colors: " + colors);

        // 2. Insert an element at the first position

        System.out.println("Before insertion: " + colors);
```

```
colors.add(0, "Red");

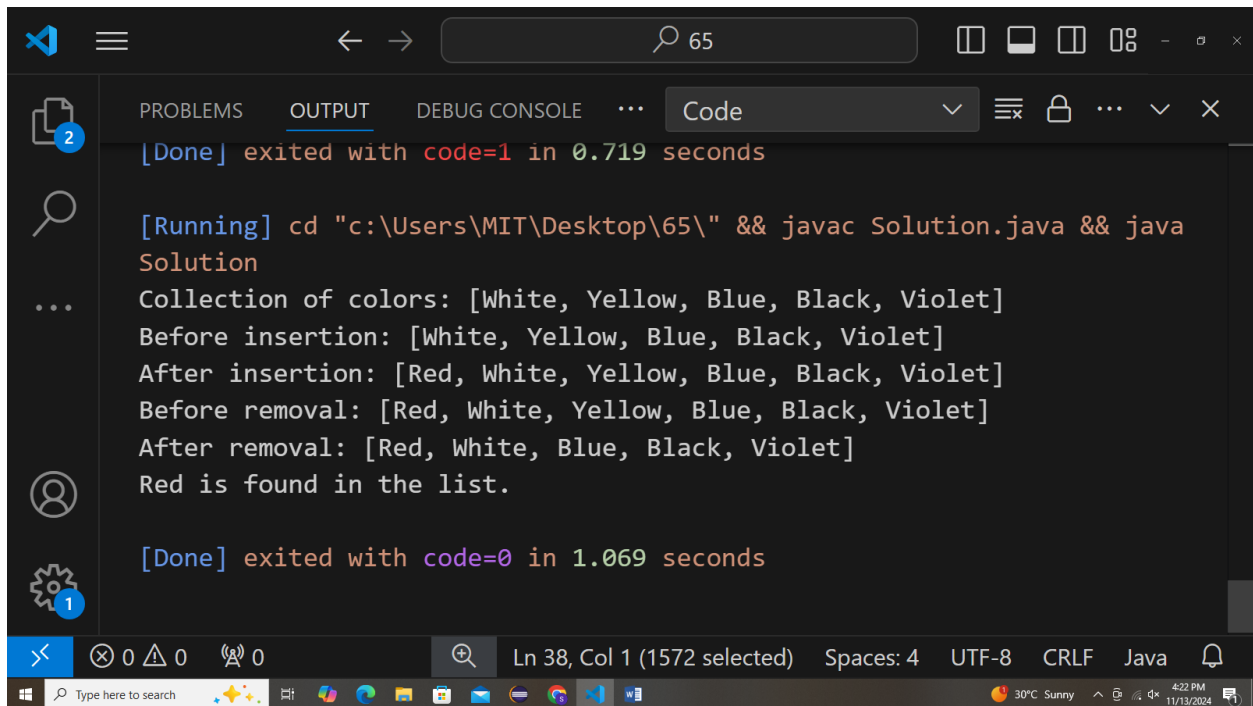
System.out.println("After insertion: " + colors);

    System.out.println("Before removal: " + colors);
    colors.remove(2);
System.out.println("After removal: " +colors);

        String searchColor = "Red";
    if (colors.contains(searchColor)) {
        System.out.println(searchColor + " is found in the list.");
    } else {
        System.out.println(searchColor + " is not found in the list.");
    }
}

}
```

Output :-



The screenshot shows the Visual Studio Code interface with the 'OUTPUT' tab selected. The output window displays the execution of a Java program. The first line indicates a previous run completed with an error: `[Done] exited with code=1 in 0.719 seconds`. The second line shows the current run starting: `[Running] cd "c:\Users\MIT\Desktop\65\" && javac Solution.java && java Solution`. The program's output lists a collection of colors and the results of insertion and removal operations. The final line shows the current run completed successfully: `[Done] exited with code=0 in 1.069 seconds`.

```
[Done] exited with code=1 in 0.719 seconds

[Running] cd "c:\Users\MIT\Desktop\65\" && javac Solution.java && java Solution
Collection of colors: [White, Yellow, Blue, Black, Violet]
Before insertion: [White, Yellow, Blue, Black, Violet]
After insertion: [Red, White, Yellow, Blue, Black, Violet]
Before removal: [Red, White, Yellow, Blue, Black, Violet]
After removal: [Red, White, Blue, Black, Violet]
Red is found in the list.

[Done] exited with code=0 in 1.069 seconds
```

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