```
Question 2:
import java.util.*;
public class Main {
 public static void main(String[] args) throws Exception {
  Scanner sc = new Scanner(System.in);
  System.out.println("Program by Manasa\nJava1\nSAP ID:51834754");
  System.out.println("Enter the first string:");
  String input = sc.nextLine();
  System.out.println("Enter the second string:");
  String rotation = sc.nextLine();
  if (checkRotatation(input, rotation)) {
   System.out.println(input + " and " + rotation
     + " are rotation of each other");
  } else {
   System.out.println("they are not rotation of another");
  }
  sc.close();
}
```

```
public static boolean checkRotatation(String original, String rotation) {
  if (original.length() != rotation.length()) {
    return false;
  }
  String concatenated = original + original;
  if (concatenated.indexOf(rotation) != -1) {
    return true;k
  }
  return false;
}
```

```
import java.util.*;
  public class Main {
     public static void main(String[] args) throws Exc
      Scanner sc = new Scanner(System.in);
System.out.println("Program by Manasa\nJava1\n
System.out.println("Enter the first string:");
       String input = sc.nextLine();
       System.out.println("Enter the second string:");
String rotation = sc.nextLine();
       System.out.println("they are not rotation of
       sc.close();
     public static boolean checkRotatation(String orig
       if (original.length() != rotation.length()) {
       String concatenated = original + original;
       if (concatenated.indexOf(rotation) != -1) {
      Terminal
                                                    口
Program by Manasa
Enter the first string:
Enter the second string:
hello
Process finished.
Question 5:
import java.util.Arrays;
class Main
{
         public static void swap(int[] arr, int a, int b)
         {
                 int temp = arr[a];
```

```
arr[a] = arr[b];
        arr[b] = temp;
}
public static void bubbleSort(int[] arr, int x)
{
        for (int a = 0; a < x - 1; a++) {
                if (arr[a] > arr[a + 1]) {
                        swap(arr, a, a + 1);
                }
        }
        if (x - 1 > 1) {
                bubbleSort(arr, x - 1);
        }
}
public static void main(String[] args)
{
        int[] arr = { 4, 3, 8, 6, 1, 9, -7 };
        bubbleSort(arr, arr.length);
        System.out.println("Program by Manasa \nJava1\nSAP ID:51834754");
        System.out.println(Arrays.toString(arr));
}
```

```
import java.util.Arrays;
  class Main
       public static void swap(int[] arr, int a, int
           int temp = arr[a];
arr[a] = arr[b];
arr[b] = temp;
       public static void bubbleSort(int[] arr, int x
           for (int a = 0; a < x - 1; a++) {
   if (arr[a] > arr[a + 1]) {
      swap(arr, a, a + 1);
}
          }
if (x - 1 > 1) {
   bubbleSort(arr, x - 1);
       public static void main(String[] args)
           int[] arr = { 4, 3, 8, 6, 1, 9, -7 };
           bubbleSort(arr, arr.length);
           System.out.println("Program by Manasa \nJa
           System.out.println(Arrays.toString(arr));
                                                            Terminal
Process finished.
             |||
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```

}