1.Write a Java program to reverse a string using the inbuilt method.

Ans:

```
public class test2 {
    public static void main(String[] args) {

        String name = "AVIJIT PATRA";

        System.out.print("String is: ");
        for (int i = 0; i < name.length(); i++) {
            System.out.print(name.charAt(i) + " ");
        }
        System.out.println();
        System.out.print("Reverse String: ");
        for (int i = name.length() - 1; i >= 0; i--) {
            System.out.print(name.charAt(i) + " ");
        }
    }
}
OUTPUT:
String is: A V I J I T   P A T R A
Reverse String: A R T A P   T I J I V A
```

2. Write a Java program to know whether the given string is palindrome.

Ans:

```
public class test2 {
    public static void main(String[] args) {

        String str = "madam";
        String tempStr = "";
        boolean bl = true;

        for (int i = 0; i < str.length(); i++) {
            tempStr = str.charAt(i) + tempStr;
        }
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) != tempStr.charAt(i)) {
                bl = false;
            }
        }
        if (bl) {
            System.out.println(str + "= " + "String is palindrome");
        } else {
            System.out.println(str + "= " + "String is not palindrome");
        }
```

```
    }
}
OUTPUT:
madam= String is palindrome
```

3. Write a Java program to convert upper case to lower case and vice versa.

Ans:

```
public class test2 {
    public static void main(String[] args) {

        // converting lower case to upper case
        String str = "pwjavaskills";
        System.out.println(str.toUpperCase());

        // converting upper case to lower case
        String str1 = "AVIJIT PATRA";
        System.out.println(str1.toLowerCase());
    }
}
OUTPUT:
PWJAVASKILLS
avijit patra
```

4. Write a Java program to remove a particular character from a string.

Ans:

```
public class test2 {
    public static void main(String[] args) {

        // remove character
        String str = "My name is Avijit";

        System.out.println("before remove " + str);
        System.out.println(removeCharAt(str, 5));
    }

     static String removeCharAt(String str, int a){
        return str.substring(0, a) + str.substring(a + 1);
     }
}
OUTPUT:
before remove My name is Avijit
My nae is Avijit
```

5. Write a Java program to find the index of a substring.

Ans:

```
public class test2 {
    public static void main(String[] args) {
        String str = "Hello World";

        int index = str.indexOf("World");

        if(index == -1){
            System.out.println("String is not found");
        } else {
            System.out.println("String index is found at: " + index);
        }
    }
}
OUTPUT:
String index is found at: 6
```