

ASSIGNMENT – 9

Q1. Write a JAVA program to read a string from the key board and print its reverse. Also check whether the string is palindrome or not.

```
import java.util.Scanner;
class q1 {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the string: ");
        String str = sc.nextLine();
        StringBuilder rev = new StringBuilder(str).reverse();
        System.out.println("The reversed string is: "+rev);

        if(str.contentEquals(rev)) {
            System.out.println(str+" is a palindrome");
        }
        else {
            System.out.println(str+" is not a palindrome");
        }
    }
}
```

```
C:\24BCSA08>javac q1.java
C:\24BCSA08>java q1
Enter a String: Manoj
Reversed String is: jonaM
Manoj is not a palindrome
C:\24BCSA08>|
```

Q2. Write a JAVA program to capitalize first letter of each word in an inputted sentence from keyboard.

Sample Output:

Enter a sentence: india is great

India Is Great

```
import java.util.Scanner;
class q2 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a sentence: ");
        String string = sc.nextLine();
        StringBuilder stringBuilder = new StringBuilder();
        for (String word : string.split(" ")) {
            if (!word.isEmpty()) {
                stringBuilder.append(Character.toUpperCase(word.charAt(0)))
                    .append(word.substring(1)).append(' ');
            }
        }
        System.out.println(stringBuilder.toString());
    }
}
```

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SIC No. – 24BCSA08

Lab Roll No. – 10

Date of Experiment – 7/11/2025

```

    }
}
System.out.println("Transformed String is: " + stringBuilder.toString().trim());
}
}

```

```

C:\24BCSA08>javac q2.java

C:\24BCSA08>java q2
Enter a sentence: manoj
Transformed String is: Manoj

C:\24BCSA08>

```

Q3. Write a JAVA program to convert a string into uppercase.

```

import java.util.Scanner;
class q3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a String: ");
        String str = sc.nextLine();
        System.out.println("Upper-Case String is: "+str.toUpperCase());
    }
}

```

```

C:\24BCSA08>javac q3.java

C:\24BCSA08>java q3
Enter a String: Manoj
Upper-Case String is: MANOJ

C:\24BCSA08>

```

Q4. Write a Java program to input a string and print the total number of characters present in the string.

```

import java.util.Scanner;
class q4 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a String: ");
        String str = sc.nextLine();
        System.out.println("Upper-Case String is: "+str.length());
    }
}

```

```

C:\24BCSA08>javac q4.java

C:\24BCSA08>java q4
Enter a String: Manoj
Total number of characters present: 5

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```

Name – Manojnya Harichandan
 SIC No. – 24BCSA08
 Lab Roll No. – 10
 Date of Experiment – 7/11/2025

Q5. Write a java program to replace a substring with another string.

```
import java.util.Scanner;
class q5 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a String: ");
        String string = sc.nextLine();
        System.out.print("Enter the Sub-String: ");
        String subString = sc.nextLine();
        System.out.print("Enter the String to replace with: ");
        String replaceWith = sc.nextLine();
        System.out.println("String after sub-string replacement: " + string.replace(subString,
replaceWith));
    }
}
```

```
C:\24BCSA08>javac q5.java
C:\24BCSA08>java q5
Enter a String: MANOJ
Enter the Sub-String: OJ
Enter the String to replace with: AY
String after sub-string replacement: MANAY
C:\24BCSA08>|
```

Q6. Write a program that computes your initials from your full name and displays them.

```
import java.util.Scanner;
class q6{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter your full name: ");
        String string = sc.nextLine();
        String[] words = string.split(" ");
        StringBuilder stringBuilder = new StringBuilder(words.length);
        for (String word : words) {
            stringBuilder.append(Character.toUpperCase(word.charAt(0)));
        }
        System.out.println("Initials String is: " + stringBuilder);
    }
}
```

```
C:\24BCSA08>javac q6.java
C:\24BCSA08>java q6
Enter your full name: Manoj
Initials String is: M
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```

Name – Manojnya Harichandan
SIC No. – 24BCSA08
Lab Roll No. – 10
Date of Experiment – 7/11/2025

Q7. Write a program that receives two strings and check whether they are equal or not.

```
import java.util.Scanner;
```

```
class q7 {
```

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

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.print("Enter a String: ");
```

```
        String string1 = sc.next();
```

```
        System.out.print("Enter a String: ");
```

```
        String string2 = sc.next();
```

```
        if (string1.equals(string2)) {
```

```
            System.out.println(string1 + " and " + string2 + " are equal");
```

```
        } else {
```

```
            System.out.println(string1 + " and " + string2 + " are not equal");
```

```
        }
```

```
    }
```

```
}
```

```
C:\24BCSA08>javac q7.java
```

```
C:\24BCSA08>java q7
```

```
Enter a String: MANOJ
```

```
Enter a String: manay
```

```
MANOJ and manay are not equal
```

```
C:\24BCSA08>|
```

Name – Manojnya Harichandan

SIC No. – 24BCSA08

Lab Roll No. – 10

Date of Experiment – 7/11/2025