

Question 1:

Code:

```
import java.io.*;

public class StringToCharArr {
    public static void main(String[] args) throws IOException {
        InputStreamReader read = new InputStreamReader(System.in);
        BufferedReader in = new BufferedReader(read);
        String str;
        System.out.println("Enter a String");
        str = in.readLine();
        char ch[] = new char[str.length()];
        str.getChars(0, str.length(), ch, 0);
        System.out.println(ch);
    }
}
```

Output:

```
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> javac StringToCharArr.java
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> java StringToCharArr
Enter a String
Hello this is a testing String.
Hello this is a testing String.
```

Question 2:

Code:

```
import java.io.*;

public class CharAppend {
    public static void main(String[] args) throws IOException {
        InputStreamReader read = new InputStreamReader(System.in);
        BufferedReader in = new BufferedReader(read);
        String str;
        System.out.println("Enter a String:");
        str = in.readLine();
        char ch[] = new char[5 + str.length()];
        ch[0] = 'H';
        ch[1] = 'e';
        ch[2] = 'l';
        ch[3] = 'l';
        ch[4] = 'o';
        str.getChars(0, str.length(), ch, 5);
        System.out.println(ch);
    }
}
```

Output:

```
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> javac CharAppend.java
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> java CharAppend
Enter a String:
    this is a testing String.
Hello this is a testing String.
```

Question 3:

Code:

```
import java.io.*;

public class StringLength {
    public static void main(String[] args) throws IOException {
        InputStreamReader read = new InputStreamReader(System.in);
        BufferedReader in = new BufferedReader(read);
        String str;
        System.out.println("Enter a String:");
        str = in.readLine();
        System.out.println(str.length());
        System.out.println(str.trim().length());
    }
}
```

Output:

```
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> javac StringLength.java
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> java StringLength
Enter a String:
    String starts after six spaces
Length with space: 36
Length without space: 30
```

Question 4:

Code:

```
import java.io.*;

public class FindSubsequence {
    public static void main(String[] args) throws IOException {
        InputStreamReader read = new InputStreamReader(System.in);
        BufferedReader in = new BufferedReader(read);
        String str, search;
        System.out.println("Enter a String:");
        str = in.readLine();
        System.out.println("Enter the subsequence to be searched:");
        search = in.readLine();
        if (str.contains(search)) {
            System.out.println("Subsequence found");
        } else {
            System.out.println("Search unsuccessful");
        }
    }
}
```

Output:

```
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> javac FindSubsequence.java
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> java FindSubsequence
Enter a String:
University of Technology
Enter the subsequence to be searched:
Tech
Subsequence found
Position : 14
```

Question 5:

Code:

```
import java.io.*;

public class StringSort {
    public static void main(String[] args) throws IOException {
        InputStreamReader read = new InputStreamReader(System.in);
        BufferedReader in = new BufferedReader(read);
        String str;
        System.out.println("Enter a String:");
        str = in.readLine();
        str = str.toLowerCase();
        String arr[] = str.split(" ");
        for (int i = 0; i < arr.length - 1; i++) {
            for (int j = 0; j < arr.length - i - 1; j++) {
                if (arr[j].compareTo(arr[j + 1]) > 0) {
                    String temp = arr[j];
                    arr[j] = arr[j + 1];
                    arr[j + 1] = temp;
                }
            }
        }
        System.out.println("The Sorted Words");
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }
        System.out.println();
    }
}
```

Output:

```
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> javac StringSort.java
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> java StringSort
Enter a String:
My name is Swapnanil Dutta
The Sorted Words
dutta is my name swapnanil
```

Question 6:

Code:

```
import java.io.*;

public class GeneratePass {
    public static void main(String[] args) throws IOException {
        InputStreamReader read = new InputStreamReader(System.in);
        BufferedReader in = new BufferedReader(read);
        String str, roll;
        System.out.println("Enter your Full Name: ");
        str = in.readLine();
        System.out.println("Enter Your Roll No (Enter University Roll
Number): ");
        roll = in.readLine();
        String pass = "";
        for (String s : str.split(" ")) {
            pass += s.charAt(0);
        }
        pass += roll.substring(roll.length() - 4);
        System.out.println("Password- " + pass);
    }
}
```

Output:

```
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> javac GeneratePass.java
PS D:\OOPS-PCC-CS593\Day-19-(25.11.2020)> java GeneratePass
Enter your Full Name:
Swapnanil Dutta
Enter Your Roll No (Enter University Roll Number):
16900218012
Password- SD8012
```