

1-)

```
import java.util.*;
public class sort {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String[] str= new String[5];
        for(int i=0;i<5;i++) {
            String s=sc.nextLine();
            str[i]=s;
        }
        bubbleSort(str);
        for(int i=0;i<5;i++) {
            System.out.println(str[i]);
        }

    }

    public static void bubbleSort(String[] str) {
        String temp;
        for(int i=0;i<4;i++) {
            for(int j=i+1;j<5;j++) {
                if(str[j].compareTo(str[i])<0) {
                    temp=str[j];
                    str[j]=str[i];
                    str[i]=temp;
                }
            }
        }
    }

}
```

```
import java.util.*;
public class sort {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String[] str= new String[5];
        for(int i=0;i<5;i++) {
```

```

        String s=sc.nextLine();
        str[i]=s;
    }
    insertionSort(str);
}

public static void insertionSort(String[] str) {
    for(int i=1;i<5;i++) {
        String temp=str[i];
        int j=i-1;
        while(j>=0) {
            if(temp.compareTo(str[j])>0) {
                break;
            }
            str[j+1]=str[j];
            j--;
        }
        str[j+1]=temp;
    }
    for(int i=0;i<5;i++) {
        System.out.println(str[i]);
    }
}
}

```

2-)

```

import java.util.*;
class initials {

    static void printInitials(String name)
    {
        if (name.length() == 0)
            return;
        String words[] = name.split(" ");
        for(String word : words) {

            System.out.print(Character.toUpperCase(word.charAt(0)) + " ");
        }
    }

    public static void main(String args[])

```

```

        {
            Scanner sc=new Scanner(System.in);
            String name=sc.nextLine();
            printInitials(name);
        }
    }
}

```

3-)

```

import java.util.*;
class password
{
    public static void main(String[] args)
    {
        String n;
        Scanner c=new Scanner(System.in);
        System.out.print("Enter your full name:");
        n=c.nextLine();
        System.out.print("Enter your age:");
        int age=c.nextInt();
        String [] t=n.split(" ");
        int l=t.length;
        System.out.print("Your password is:");
        for(int i=0;i<l-1;i++)
        {
            System.out.print(t[i].charAt(0)+"_");
        }
        System.out.print(t[l-1]+"@"+age);
    }
}

```

4-)

```

import java.util.*;
public class swap {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String s1=sc.nextLine();
        String s2=sc.nextLine();
        String str[]=s1.split(" ");
    }
}

```

```

String str1[]=s2.split(" ");
String temp=str[str.length-1];
str[str.length-1]=str[0];
str[0]=temp;
String temp1=str1[str1.length-1];
str1[str1.length-1]=str1[0];
str1[0]=temp1;
String first=Arrays.toString(str);
String second=Arrays.toString(str1);
System.out.println(first);
System.out.println(second);

```

```

}

```

```

}

```

5-)

```

import java.util.*;
public class usn {

```

```

    public static void main(String[] args) {

```

```

        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();

```

```

        int l=s.length();
        char[] ch=new char[l];
        for (int i = 0; i < l; i++) {

```

```

            ch[i] = s.charAt(i);

```

```

        }

```

```

        if(l==10 && (ch[0]>=48 && ch[0]<=57 && (ch[0]=='1' || ch[0]=='2')
&& Character.isUpperCase(ch[1]) && Character.isUpperCase(ch[2]) && ch[3]>='0' &&
ch[3]<='9' && ch[4]>='0' && ch[4]<='9' && Character.isUpperCase(ch[5]) &&
Character.isUpperCase(ch[6]) && (ch[5]=='C' && ch[6]=='S') &&
ch[7]>='0' && ch[7]<='9' && ch[8]>='0' && ch[8]<='9' && ch[9]>='0' && ch[9]<='9')){

```

```

            System.out.println("Success");

```

```

        }

```

```

        else {

```

```

            System.out.println("Failure");

```

```

        }

```

```
}
```

```
}
```

6-)

```
public class usn {
    static String reverseWords(String inputString) {
        String[] words = inputString.split(" ");

        String reverseString = "";

        for (int i = 0; i < words.length; i++)
        {
            String word = words[i];

            String reverseWord = "";

            for (int j = word.length()-1; j >= 0; j--)
            {
                reverseWord = reverseWord + word.charAt(j);
            }

            reverseString = reverseString + reverseWord + " ";
        }
        return reverseString;
    }
    public static void main(String[] args)
    {
        String str1 = "1 cup of hot coffee costs 8.00, whereas cold coffee costs 45.00.";
        System.out.println(reverseWords(str1));

        String str2 = "It Costs 25000rs for 1 LCD Projector.";
        System.out.println(reverseWords(str2));

        String str3 = "8990.33";
        System.out.println(reverseWords(str3));
    }
}
```

7-)

```

class usn {

    static void printRLE(String s)
    {
        String s1=s.toLowerCase();
        for (int i = 0; i < s1.length(); i++) {
            int count = 1;
            while (i + 1 < s1.length() && s1.charAt(i) == s1.charAt(i
+ 1)) {

                i++;
                count++;
            }
            System.out.print(s1.charAt(i)+ "" + count + " ");

            System.out.println();
        }
        public static void main(String args[])
        {
            printRLE("aAbcccccaaA");
            printRLE("BBBBbbb");
        }
    }
}

```

8-)

```
import java.util.Arrays;
```

```

class usn {
    static int count_Triplets(int[] A, int N){
        int count = 0;
        Arrays.sort(A);
        for(int i = 0; i < N; i++){
            for(int j = i + 1; j < N; j++){
                for(int k = j + 1; k < N; k++){
                    if(A[i] + A[j] == A[k]){
                        System.out.println(A[i]+","+A[j]+","+A[k]);
                        count++;
                    }
                }
            }
        }
    }
}

```

```
    return count;
}

    public static void main(String args[]) {
        int[] A = {1, 2, 3, 4, 5,7,9};
        int N = A.length;
        System.out.print(count_Triplets(A, N));
    }
}
```