PROGRAMMING IN JAVA

Assignment – 2:

1.
```java
import java.lang.*;

import java.util.*;
class day2p1 {
     public static void main(String args[]) {
           String s1 = "sachin";
        String s2 = "sachin";
        String s3 = "vishnu";
        String s4 = "M.Vishnu";
        System.out.println("Comparing the strings: " + s1.equals(s2));
        System.out.println("comparing the strings:" +
s3.equalsIgnoreCase(s1));
        System.out.println("comparing the strings:" + Objects.equals(s2,s3));
        System.out.println("comparing the strings: " + s1.compareTo(s3));
     }
}
```

Output:

```
Comparing the strings: true
comparing the strings:false
comparing the strings:false
comparing the strings: -3
PS C:\Users\vishn>
```

2.
```java
import java.util.*;

class day2p2 {
    public static void main(String args[]) {
          String s1 = "welcome to NPTEL";
          System.out.println(s1.endsWith("NPTEL"));
          if(s1.endsWith("NPTEL"))
          System.out.println("String ends with NPTEL");
          else
          System.out.println("String doesnt end with NPTEL");
    }
}
```

Output:

```
true
String ends with NPTEL
PS C:\Users\vishn>
```

3.
```java
import java.text.*;

import java.util.*;
class day2p3 {
    public static void main(String args[]) {
         SimpleDateFormat f= new SimpleDateFormat("dd/MM/yyyy hh:mm:ss");
         Date d = new Date();
         System.out.println(f.format(d));
    }
}
```

Output:

```
13/04/2023 06:16:12
PS C:\Users\vishn>
```

4.
```java
class day2p4 {

    public static void main(String args[]) {
        String s1 = "welcome to NPTEL";
        int s2 = s1.indexOf("N");
        int s3 = s1.indexOf("l");
        System.out.println(s2 + " " + s3);
    }
}
```

Output:

11 2

5.
```java
import java.util.*;

class day2p5 {
    public static void main(String args[]) {
        String s1 = "welcome to NPTEL";
        String s2 = s1.replace("wel","del");
        System.out.println(s2);

    }
}
```

Output:delcome to NPTEL

6.
```java
class day2p6 {

    public static void main(String args[]) {
        String s1 = "welcome to NPTEL";
        System.out.println("the original string:" + s1);
      System.out.println("substring:" + s1.substring(0,6));
    }
}
```

Output:

```
the original string:welcome to NPTEL
substring:welcom
PS C:\Users\vishn>
```

7.
```java
class day2p7 {

    public static void main(String args[]) {
        String s1 = " welcome to NPTEL";
        System.out.println(s1);
        System.out.println("string after trimming:"+s1.trim());
    }
}
```

Output:

```
 welcome to NPTEL
string after trimming:welcome to NPTEL
PS C:\Users\vishn>
```

8.
```java
class day2p8 {

    public static void main(String args[]) {
        String s1 = "welcome to NPTEL";
        System.out.println("original string:" + s1);
        String s2 = s1.toLowerCase();
        System.out.println("lowercase string:" + s2);
        String s3 = s1.toUpperCase();
        System.out.println("UPPERCASE string:" + s3);
        int a = s1.length();
        System.out.println("Length of the string:"+a);

    }
}
```

Output:

```
original string:welcome to NPTEL
lowercase string:welcome to nptel
UPPERCASE string:WELCOME TO NPTEL
Length of the string:16
PS C:\Users\vishn>
```

9.
```
class day2p9 {

    public static void main(String args[]) {
        String s1 = "welcome to NPTEL";
        String s2 = "welocme to Saveetha";
        String s3 = "welocme to india";
     boolean   s4 = s1.equals(s2);
    boolean  s5 = s2.equals(s3);
        System.out.println(s1 + " equals "+ s2 +" :"+ s4);
        System.out.println(s2 + " equals "+ s3 + " :"+s5);
    }
}
```

Output:

```
welcome to NPTEL equals welocme to Saveetha :false
welocme to Saveetha equals welocme to india :false
PS C:\Users\vishn>
```

10.
```
import java.util.*;

class Account {
    int bal;
    Scanner s = new Scanner(System.in);
    Account() {
        bal = 50;
    }
    public void add(int n)
    {
        //System.out.println("enter money to add into account:");
        // int n = s.nextInt();
         bal = bal + n;
        System.out.println("current balance:" + bal);
    }
    public void withdraw(int m){
       // System.out.println("enter withdrawal amount:");
       // int m = s.nextInt();
        if(m>bal)
        {
            double charge = bal * 0.05;
            System.out.println("charges:"+charge);
```

```
        }
        bal =bal - m;
        System.out.println("remaining balance is:"+bal);
    }
  //  public void balanace() {
   //     System.out.println("current balance:"+bal);
   // }
}
class day2p10 {
    public static void main(String args[]) {
        Account a = new Account();
        a.add(100);
        a.withdraw(30);
       // a.balance();
    }
}
```

Output:

```
current balance:150
remaining balance is:120
PS C:\Users\vishn>
```

11.

```
import java.io.*;

import java.util.*;
 class day2p12 {
    public static void main(String args[]) {
        try {
            Scanner sc = new Scanner(System.in);
            int count = 0, n = 100, i, j = 0, m = 4;
            int[] a = new int[10];
            System.out.println("Enter the number:");
            n = sc.nextInt();
            if (n <= 0) {
                System.out.println("Enter valid number");
            } else {
                for (i = 1; i <= n; i++) {
                    if (n % i == 0) {
                        a[j] = i;
                        System.out.println("..." + i);
                        count++;
                        j++;
                    }
                }
                System.out.println("The number of factors:" + count);
            }
            System.out.println(m + "th item " + a[m - 1]);
```

```
        } catch (Exception e) {
            System.out.println("Enter only numbers");
 }
}
}
```

Output: