S.N.R.LIKHITHA

1. Read an Employee data with idno, name and mobilenumber (regular expression)

and compare the mobile number must have only 10 digits name can consists of only alphabets, space character idno number consists of 5 digits

Program:

```
package Likki;
import java.util.*;
import java.util.regex.*;
public class Employee {
      public static void main(String[] args) {
            String <a href="mailto:idno.">idno</a>, <a href="mailto:name">name</a>, <a href="mailto:mobile;">mobile;</a>
            Scanner obj=new Scanner(System.in);
            System.out.println("Enter idno");
            idno=obj.next();
            System.out.println("Enter your name");
            name=obj.next();
            System.out.println("Enter your 10 digit mobile number");
            mobile=obj.next();
            System.out.println("Valid mobile number");
             else
                    System.out.println("Invalid mobile number");
      }
}
```

Output:

```
Enter idno
3
Enter your name
Likhitha
Enter your 10 digit mobile number
8185051197
Valid mobile number
```

2. Write a mutithreading program,

thread 1: to display all perfect numbers,

thread 2: to display factorial value of numbers from 1 to 10.

Program:

```
package Likki;
import java.util.*;
public class Thread1 {
      public static void main(String[] args) {
            Scanner obj = new Scanner(System.in);
            long num,i,sum=0;
            System.out.println("Enter a number");
            num=obj.nextLong();
            for (i=1; i < num; i++)</pre>
                   if(num%i==0)
                         System.out.println(i);
                         sum=sum+i;
                   System.out.println("sum="+sum);
                   if(sum==num)
                   System.out.println(num+"is prefect number");
                 else
            System.out.println(num+"is not a perfect number");
      try {
            Thread. sleep (1000);
      catch(Exception e) {
            System.out.println(e);
}
```

Output:

```
Enter a number
2
1
sum=1
2is not a perfect number
```

Program:

Output:

```
Enter an factorial number
3
3!=6
```

3. Write a program to read the data from file.

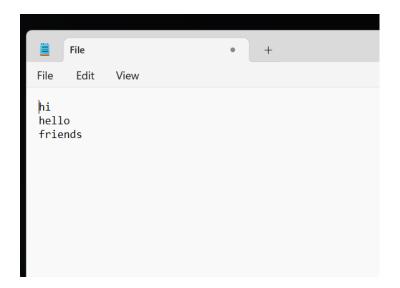
Program:

```
package Threads;
import java.io.*;
public class ReadFile {
     public static void main (String[] sun) throws IOException
          FileReader fr=new
FileReader("C:\\Users\\LIKHITHA\\OneDrive\\Desktop\\File.txt")
;
          BufferedReader br=new BufferedReader(fr);
          String str=null;
          while( true )
          { try
          { str=br.readLine(); // read from file
          if(str.equals(null))
               break;
          System.out.println(str);
          catch (NullPointerException e)
          { break; }
          br.close();
```

```
fr.close();
}
```

Output:

hi hello friends



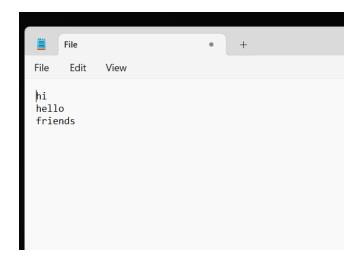
4. write a program to write the content to file in append mode.

Program:

Input:

```
Enter file input
welcome
Enter file input
to
Enter file input
the
Enter file input
java
Enter file input
classes
Enter file input
Null
```

Before Execution:



After Execution:

