Q1. Write a program to display the dates 10 days before and after today.

```java
import java.time.*;

class FindDates
{
  public static void main(String [] args)
  {
      LocalDate ld1 = LocalDate.now();
      System.out.println("Todays Date : " + ld1);

      LocalDate ld2 = ld1.minusDays(10);
      System.out.println("Date before today :" +ld2);

      LocalDate ld3 = ld1.plusDays(10);
      System.out.println("Date after today :" + ld3);
  }
}
```

```
E:\java_notes>javac FindDates.java

E:\java_notes>java FindDates
Todays Date : 2023-10-28
Date before today :2023-10-18
Date after today :2023-11-07
```

Q2. Write a program to calculate your age in terms of years.

```java
import java.time.*;

class CalculateAge
{
  public static void main(String [] args)
  {
    LocalDate ld1 = LocalDate.now();
    LocalDate ld2 = LocalDate.parse("1997-03-16");
    Period age = Period.between(ld2,ld1);
    int years = age.getYears();
    int months = age.getMonths();
    int days = age.getDays();

    System.out.println("Age is :" + years + " Years " +months +" months "  + days + " Days
");
  }
}
```

```
E:\java_notes>javac CalculateAge.java

E:\java_notes>java CalculateAge
Age is :26 Years 7 months 12 Days
```

Q3. Write a program to find the numeric IP address of the following website www.bbc.com.

```java
import java.net.*;

class FindIPAddress
{
 public static void main(String args[])
 {
   try
    {
        InetAddress [] ia1 = InetAddress.getAllByName("www.bbc.com");
        System.out.println("Get all by name :");

        for(int i = 0; i < ia1.length ; i ++)
        {
          System.out.println(ia1[i]);
        }
        System.out.println("Get local host ip : " + ia1[0].getHostAddress());
    }
    catch(UnknownHostException ex)
    {
        System.out.println(ex);
    }
 }
}
```

```
E:\java_notes>javac FindIPAddress.java

E:\java_notes>java FindIPAddress
Get all by name :
www.bbc.com/151.101.152.81
Get local host ip : 151.101.152.81
```

Q4. Write a program to create a simple Server in your machine. The server will send a message "Hello Everyone" whenever a client connects to it.

```java
import java.net.*;
import java.io.*;

class ServerConn
{
 public static void main(String args[]) throws IOException
 {
     ServerSocket ss = new ServerSocket(2000);
     System.out.println("Server is Ready ");

     boolean f = false;
   while(f != true)
   {
     Socket cs = ss.accept();
     InputStream in = cs.getInputStream();
     InputStreamReader ins = new InputStreamReader(in);
     BufferedReader br = new BufferedReader(ins);

       String s =" ";
       do
       {
          s=br.readLine();
          System.out.println(s);
       }
     while((s.equals(".")));
     cs.close();
     f = true;
    }
     ss.close();
   }
}
```

```java
import java.net.*;
import java.io.*;

class ClientSend
{
  public static void main(String args[]) throws IOException
  {
    Socket cs = new Socket("localhost",2000);
    OutputStream os = cs.getOutputStream();
    PrintWriter p = new PrintWriter(os);

    InputStreamReader ins = new InputStreamReader(System.in);
    BufferedReader br = new BufferedReader(ins);
    String s = " ";

    System.out.println("Sending ");
    do
    {
       s=br.readLine();
       p.println(s);
       p.flush();
    }
    while((s.equals(".")));

    cs.close();
   }
}
```

```
E:\java_notes>javac ServerConn.java          E:\java_notes>javac  ClientSend.java

E:\java_notes>java ServerConn                E:\java_notes>java ClientSend
Server is Ready                              Sending
Hello Everyone.                              Hello Everyone.
```