IRC_Java_D10_Java io_CE_COD

Test Summary

No. of Sections: 1No. of Ouestions: 5

• Total Duration: 180 min

Section 1 - CODING

Section Summary

• No. of Questions: 5

• Duration: 180 min

Additional Instructions:

None

Q1. **Problem statement:**

Write a Java program to count the number of days between two given years.

Input Format

The input consists of two integers .start year and end year.

Output Format

The output prints the number of days between two years and if the end year is greater than the start year then it has to print "End year must be greater than the first year!".

Sample Input

Sample Output

1995	Year: 1995 = 365
2021	Year: 1996 = 366
	Year: 1997 = 365
	Vonn: 1009 - 365

Sample Input

Sample Output

1993	End year must be greater than first year!
1990	

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. **Problem statement:**

Write a Java program to create a Date object using the Calendar class.

Note:

Jan -0 to Dec -11

Input Format

The input consists of three integers, year, month, and date.

Output Format

The output prints the date. Refer to the sample input and output for the formatting specifications.

Sample Input

Sample Output

2016	
0	Fri Jan 01 00:00:00 GMT 2016
1	

Sample Input

Sample Output

2016	
1	Sun Feb 21 00:00:00 GMT 2016
21	

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q3. **Problem statement:**

Write a Java program to extract the date, and time from the date string.

Input Format

The input consists of a string and the format for the date and time is, YYYY-MM-DD Time: Hours: Minutes

Example: 2016-07-14 09:00:02

Output Format

The output prints the extract form of Date and Time. The format is MM/DD/YYYY Time: Hours: Minutes.

Sample Input

Sample Output

2016-07-14 09:00:02	07/14/2016, 9:00:02

Sample Input

Sample Output

2019-03-14 03:00:05	03/14/2019, 3:00:05

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q4. **Problem statement:**

write a program to find the instant method of clock class.

Input Format

The input consists of a string that represents the the ZonelD.

Output Format

The output prints the instant method of the clock class. Refer to the sample input and output for the formatting specifications.

Sample Input

Sample Output

Europe/Paris	<pre>Instant for class SystemClock[Europe/Paris] is 2022-06</pre>

Sample Input

Sample Output



Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q5. **Problem statement:**

Write a program to find the day and add the day to get the exact day of the week.

Input Format

The input consists of two integers. The first input to get the day. The second input is to get the number of days to be added with the day.

Output Format

The output prints the day of the first input and then the added value and that day . Refer to the sample input and output for the formatting specifications.

Sample Input	Sample Output
--------------	---------------

2	TUESDAY
3	5
	FRIDAY

Sample Input

Sample Output

7	SUNDAY
5	5

FRIDAY

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q1

Test Case

Input Output

```
Year: 2002 = 365
Year: 2003 = 365
Year: 2004 = 366
Year: 2005 = 365
```

Weightage - 25

Input Output

2005	Year: 2005 = 365
2010	Year: 2006 = 365
	Year: 2007 = 365
	Vonn. 2008 - 366

Weightage - 25

Input Output

```
End year must be greater than first year!
```

Weightage - 25

Input Output

```
End year must be greater than first year!
```

Weightage - 25

Sample Input Sample Output

1995	Year: 1995 = 365
2021	Year: 1996 = 366
	Year: 1997 = 365
	Voon: 1000 - 265

Sample Input Sample Output

```
1993
1990
```

Solution

```
import java.util.Scanner;
public class Main
{
    public static void main(String[] args)
    {
        //System.out.println("Input start year:");
        Scanner s = new Scanner(System.in);
        int fy = s.nextInt();
```

```
//System.out.println("\nInput end year:");
   int ly = s.nextInt();
  if (ly > fy)
   {
       for (int i = fy; i <= ly; i++)
         System.out.println("Year: " + i + " = " + number_of_days(i));
   }
   else
   {
       System.out.println("End year must be greater than first year!");
}
   public static int number_of_days(int year)
      if (is_Leap_Year(year))
          return 366;
      else
          return 365;
   public static boolean is_Leap_Year(int year)
     return (year % 4 == 0 && year % 100 != 0) || year % 400 == 0;
```

Q2 Test Case

}

Input Output

```
2022
5
9
```

Thu Jun 09 00:00:00 GMT 2022

Weightage - 25

Input Output

```
2021
03
21
```

Wed Apr 21 00:00:00 GMT 2021

Weightage - 25

Input Output

```
2021
8
28
```

Tue Sep 28 00:00:00 GMT 2021

Weightage - 25

Input Output

```
2017
3
24
```

Mon Apr 24 00:00:00 GMT 2017

```
2016
0
1
```

```
Fri Jan 01 00:00:00 GMT 2016
```

Sample Input

Sample Output

```
2016
1
21
```

```
Sun Feb 21 00:00:00 GMT 2016
```

Solution

```
import java.util.*;
public class Main
   public static void main(String[] args)
   {
         Scanner s = new Scanner(System.in);
         int year; //= 2016;
         int month;// = 0; // January
        int date;// = 1;
        year=s.nextInt();
         month=s.nextInt();
         date=s.nextInt();
         Calendar cal = Calendar.getInstance();
         // Sets the given calendar field value and the time value
         // (millisecond offset from the Epoch) of this Calendar undefined.
         cal.clear();
         System.out.println();
         cal.set(Calendar.YEAR, year);
         cal.set(Calendar.MONTH, month);
         cal.set(Calendar.DATE, date);
         System.out.println(cal.getTime());
         System.out.println();
```

Q3

Test Case

Input

Output

```
2022-06-21 05:10:05
```

06/21/2022, 5:10:05

Weightage - 25

Input

Output

```
2022-06-19 02:30:06
```

06/19/2022, 2:30:06

Input Output

```
2019-03-14 12:08:05
```

Weightage - 25

Input Output

```
2019-03-14 11:08:10 03/14/2019, 11:08:10
```

Weightage - 25

Sample Input Sample Output

```
2016-07-14 09:00:02 07/14/2016, 9:00:02
```

Sample Input Sample Output

```
2019-03-14 03:00:05 03/14/2019, 3:00:05
```

Solution

```
import java.util.*;
import java.text.*;
class Main
 public static void main(String[] args)
       try
           String str;
           //= "2016-07-14 09:00:02";
           Scanner s= new Scanner(System.in);
           str=s.nextLine();
           Date date = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss").parse(str);
           String newstr = new SimpleDateFormat("MM/dd/yyyy, H:mm:ss").format(date);
           System.out.println(newstr);
       }
       catch (ParseException e)
       {
               //Handle exception here
                 e.printStackTrace();
       }
  }
```

Q4 Test Case

Input Output

```
Africa/Luanda
                                                         Instant for class SystemClock[Africa/Luanda] is 20
Weightage - 25
                                                      Output
Input
  Brazil/West
                                                         Instant for class SystemClock[Brazil/West] is 2022
Weightage - 25
Input
                                                      Output
                                                         Instant for class SystemClock[Canada/Eastern] is 2
  Canada/Eastern
Weightage - 25
                                                      Output
Input
 US/Eastern
                                                         Instant for class SystemClock[US/Eastern] is 2022-
Weightage - 25
                                                      Sample Output
Sample Input
  Europe/Paris
                                                         Instant for class SystemClock[Europe/Paris] is 202
Sample Input
                                                      Sample Output
 US/Hawaii
                                                         Instant for class SystemClock[US/Hawaii] is 2022-0
```

Solution

```
import java.time.*;
import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        String str;
        Scanner s = new Scanner(System.in);
        str=s.nextLine();
        ZoneId zoneId = ZoneId.of(str);//"Europe/Paris"
        Clock clock = Clock.system(zoneId);
        Instant instantObj = clock.instant();
        ZonedDateTime time = instantObj.atZone(clock.getZone());
        System.out.println("Instant for class " + clock + " is " + time.toString());
```

```
}
```

Q5

Test Case

Input

Output

MONDAY
5
FRIDAY

Weightage - 25

Input Output

WEDNESDAY
5
FRIDAY

Weightage - 25

Input Output

SATURDAY
7
SUNDAY

Weightage - 25

Input Output

TUESDAY

Substituting the state of the state

Weightage - 25

Sample Input Sample Output

TUESDAY
5
FRIDAY

Sample Input Sample Output

SUNDAY
5
FRIDAY

Solution

```
import java.time.DayOfWeek;
import java.util.*;
class Main
{
    public static void main(String args[])
    {
        Scanner s = new Scanner(System.in);
        int da;
```

```
da=s.nextInt();
long adv;
adv=s.nextLong();
DayOfWeek day = DayOfWeek.of(da);
System.out.println(day.name());
day = day.plus(adv);
System.out.println(day.getValue());
System.out.println(day.name());
}
```