QUESTION:

Popular news Channel wants to store information about 10 programs they are broadcasting.

Information such as News-Program Name, Anchor, Month-of-Broadcasting, TRP Rating and Business (all figures in millions) the Program has made, have to be stored.Create a class

And Use appropriate data types.

Sample Data is provided as-

News-Program Name Anchor Month-of-Broadcasting TRP Rating Business

Headlines Yesterday Charkha Bhatt 1 15.98 300

360 0 Turning Point Rajwinder 1 2.98 10

Lunch News SriSai 2 0.77 2

India 1 Minute Charkha Bhatt 1 23.31 700

Create a Menu to-

1. Accept data and create objects.
2. Find out in which month the maximum collection has happened and how much, with the program names.
3. Which anchor has maximum number of programs to his credit i.e. who is the most busy anchor?

The OUTPUT for 2nd and 3rd options should be as follows:

Month: 1 (January optional)

2nd option:

Sr. No. Program name Business

1 Headlines Yesterday 300

2 360 0 Turning Point 10

3 India 1 Minute 700

Total Business 1010 (Figures in Millions)

3rd option:

Anchor name: Charkha Bhatt

Number of programs: 2

CODE:

/\*

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\* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template

\*/

package com.mycompany.testchannel;

import java.io.\*;

/\*\*

\*

\* @author Gayathri

\*/

public class Channel {

String newsPrgName;

String anchor;

int monthOfBroadcasting;

double trpRating;

double Business;

public void getInput()throws IOException

{

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter the News Program Name:");

newsPrgName=br.readLine();

System.out.println("Enter the Anchor Name:");

anchor=br.readLine();

System.out.println("Enter the month of broad casting:");

monthOfBroadcasting=Integer.parseInt(br.readLine());

System.out.println("Enter TRP Rating:");

trpRating=Double.parseDouble(br.readLine());

System.out.println("Enter the amount of business");

Business=Double.parseDouble(br.readLine());

}

}

/\*

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\*/

package com.mycompany.testchannel;

/\*\*

\*

\* @author Gayathri

\*/

public class MaximumCollection extends Channel

{

Channel[] obj;

int month;

int max\_bus=0;

public MaximumCollection(Channel[] ob)

{

obj=ob;

}

public void maximumCollection()

{

int count=0;

for (int i=1;i<=12;i++)

{

for(int j=0;j<obj.length;j++)

{

if(obj[j].monthOfBroadcasting==i)

{

count+=obj[j].Business;

}

}

if(count>max\_bus)

{

max\_bus=count;

month=i;

}

count=0;

}

displayMax();

}

public void displayMax()

{

System.out.println("Month:"+month);

for(int i=0;i<obj.length;i++)

{

if(obj[i].monthOfBroadcasting==month)

{

System.out.println("\*\*##PROGRAM##\*\*");

System.out.println("Program Name is "+obj[i].newsPrgName);

System.out.println("Anchor name is "+obj[i].anchor);

}

}

System.out.println("Total Business= "+max\_bus+"(Figures in Millions)");

}

}

/\*

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\* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template

\*/

package com.mycompany.testchannel;

/\*\*

\*

\* @author Gayathri

\*/

public class FamousAnchor extends Channel

{

Channel[] obj;

public FamousAnchor(Channel[] obj)

{

this.obj=obj;

}

public void famousAnchor()

{

int count=0,max=1;

String fam\_anc="";

for(int i=0;i<obj.length;i++)

{

for(int j=0;j<obj.length;j++)

{

//System.out.println(obj[i].anchor+obj[j].anchor);

if((obj[j].anchor).equals(obj[i].anchor))

{

count++;

// System.out.println("%");

}

}

//System.out.println(count);

if(count>max)

{

max=count;

fam\_anc=obj[i].anchor;

// System.out.println(max+fam\_anc);

}

count=0;

}

if(max==1)

{

System.out.println("No Anchor has high credit");

}

else

{

System.out.println("The famous anchor is "+fam\_anc+" with "+max

+" programs");

}

}

}

/\*

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\* Click nbfs://nbhost/SystemFileSystem/Templates/Project/Maven2/JavaApp/src/main/java/${packagePath}/${mainClassName}.java to edit this template

\*/

package com.mycompany.testchannel;

import java.io.\*;

/\*\*

\*

\* @author Gayathri

\*/

public class TestChannel {

public static void main(String[] args)throws IOException

{

int ch;

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter Number of programs to store ");

int n=Integer.parseInt(br.readLine());

Channel c[]=new Channel[n];

System.out.println("Enter the details");

for(int i=0;i<n;i++)

{

System.out.println("Program Number"+(i+1));

c[i]=new Channel();

try

{

c[i].getInput();

}

catch(Exception e)

{

System.out.println("Enter the correct details");

}

}

System.out.println("Enter 1 to find Maximum Collection in the data "

+ "according to the month\n 2 to find who is the busy anchor\n");

ch=Integer.parseInt(br.readLine());

switch(ch)

{

case 1:

MaximumCollection mc=new MaximumCollection(c);

mc.maximumCollection();

break;

case 2:

FamousAnchor fa=new FamousAnchor(c);

fa.famousAnchor();

break;

default:

System.out.println("Enter a valid choice");

break;

}

}

}

SAMPLE OUTPUT 1:

cd D:\NetBeans\TestChannel; JAVA\_HOME=E:\\ cmd /c "\"C:\\Program Files\\NetBeans-13\\netbeans\\java\\maven\\bin\\mvn.cmd\" -Dexec.vmArgs= \"-Dexec.args=${exec.vmArgs} -classpath %classpath ${exec.mainClass} ${exec.appArgs}\" -Dexec.appArgs= -Dexec.mainClass=com.mycompany.testchannel.TestChannel -Dexec.executable=E:\\bin\\java.exe \"-Dmaven.ext.class.path=C:\\Program Files\\NetBeans-13\\netbeans\\java\\maven-nblib\\netbeans-eventspy.jar\" org.codehaus.mojo:exec-maven-plugin:3.0.0:exec"

Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with Compile on Save turned on) will be used instead of their jar artifacts.

Scanning for projects...

---------------< com.mycompany.testchannel:TestChannel >----------------

Building TestChannel 1.0-SNAPSHOT

--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ TestChannel ---

Enter Number of programs to store

4

Enter the details

Program Number1

Enter the News Program Name:

Headlines Yesterday

Enter the Anchor Name:

Chakra Bhatt

Enter the month of broad casting:

1

Enter TRP Rating:

15.98

Enter the amount of business

300

Program Number2

Enter the News Program Name:

360 Turning Point

Enter the Anchor Name:

Rajwinder

Enter the month of broad casting:

1

Enter TRP Rating:

2.98

Enter the amount of business

10

Program Number3

Enter the News Program Name:

Lunch News

Enter the Anchor Name:

SriSai

Enter the month of broad casting:

2

Enter TRP Rating:

0.77

Enter the amount of business

2

Program Number4

Enter the News Program Name:

India 1 Minute

Enter the Anchor Name:

Chakra Bhatt

Enter the month of broad casting:

1

Enter TRP Rating:

23.31

Enter the amount of business

700

Enter 1 to find Maximum Collection in the data according to the month

2 to find who is the busy anchor

1

Month:1

\*\*##PROGRAM##\*\*

Program Name is Headlines Yesterday

Anchor name is Chakra Bhatt

\*\*##PROGRAM##\*\*

Program Name is 360 Turning Point

Anchor name is Rajwinder

\*\*##PROGRAM##\*\*

Program Name is India 1 Minute

Anchor name is Chakra Bhatt

Total Business= 1010(Figures in Millions)

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BUILD SUCCESS

------------------------------------------------------------------------

Total time: 03:46 min

Finished at: 2022-10-22T17:12:09+05:30

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SAMPLE OUTPUT 2:

cd D:\NetBeans\TestChannel; JAVA\_HOME=E:\\ cmd /c "\"C:\\Program Files\\NetBeans-13\\netbeans\\java\\maven\\bin\\mvn.cmd\" -Dexec.vmArgs= \"-Dexec.args=${exec.vmArgs} -classpath %classpath ${exec.mainClass} ${exec.appArgs}\" -Dexec.appArgs= -Dexec.mainClass=com.mycompany.testchannel.TestChannel -Dexec.executable=E:\\bin\\java.exe \"-Dmaven.ext.class.path=C:\\Program Files\\NetBeans-13\\netbeans\\java\\maven-nblib\\netbeans-eventspy.jar\" org.codehaus.mojo:exec-maven-plugin:3.0.0:exec"

Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with Compile on Save turned on) will be used instead of their jar artifacts.

Scanning for projects...

---------------< com.mycompany.testchannel:TestChannel >----------------

Building TestChannel 1.0-SNAPSHOT

--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ TestChannel ---

Enter Number of programs to store

4

Enter the details

Program Number1

Enter the News Program Name:

Headlines Yesterday

Enter the Anchor Name:

Chakra Bhatt

Enter the month of broad casting:

1

Enter TRP Rating:

15.98

Enter the amount of business

300

Program Number2

Enter the News Program Name:

360 Turning Point

Enter the Anchor Name:

Rajwinder

Enter the month of broad casting:

1

Enter TRP Rating:

2.98

Enter the amount of business

10

Program Number3

Enter the News Program Name:

Lunch News

Enter the Anchor Name:

SriSai

Enter the month of broad casting:

2

Enter TRP Rating:

0.77

Enter the amount of business

2

Program Number4

Enter the News Program Name:

India 1 Minute

Enter the Anchor Name:

Chakra Bhatt

Enter the month of broad casting:

1

Enter TRP Rating:

23.31

Enter the amount of business

700

Enter 1 to find Maximum Collection in the data according to the month

2 to find who is the busy anchor

2

The famous anchor is Chakra Bhatt with 2 programs

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BUILD SUCCESS

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Total time: 03:35 min

Finished at: 2022-10-22T17:16:48+05:30

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