/\*

Name : Deepanshu Gupta

Section : AI & ML

Roll Number : 10

1. Write a Java program by using Scanner Class to prompt a user to input his/her name and then the output will be shown as an example below:

Hello <Your Name>!

\*/

import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.print("Enter name: ");

String name=sc.nextLine();

System.out.println("Hello "+name);

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Enter name: Deepanshu Gupta

Hello Deepanshu Gupta

/\*

Name : Deepanshu Gupta

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1. Write a Java program to find the number of days in a month.

Test Data:

Input a month number: 2

Input a year: 2016

Expected Output:

February 2016 has 29 days

\*/

import java.util.\*;

import java.text.DateFormat;

import java.time.\*;

import java.time.format.\*;

public class Main {

public static void main(String args[]) {

Scanner sc=new Scanner(System.in);

System.out.print("Input a month number: ");

int m=sc.nextInt();

System.out.print("Input a year: ");

int y=sc.nextInt();

int d=YearMonth.of(y, m).lengthOfMonth();

String mon=Month.of(m).getDisplayName(TextStyle.FULL, Locale.ENGLISH);

System.out.println(mon+" "+y+" has "+d+" days");

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Input a month number: 2

Input a year: 2016

February 2016 has 29 days

/\*

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1. Write a program in Java to display the cube of the number upto given an integer.

Test Data:

Input number of terms : 4

Expected Output :

Number is : 1 and cube of 1 is : 1

Number is : 2 and cube of 2 is : 8

Number is : 3 and cube of 3 is : 27

Number is : 4 and cube of 4 is : 64

\*/

import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.print("Input number of terms: ");

int x=sc.nextInt();

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

System.out.println("Number is: "+i+" and cube of "+i+" is: "+(i\*i\*i));

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Input number of terms: 5

Number is: 1 and cube of 1 is: 1

Number is: 2 and cube of 2 is: 8

Number is: 3 and cube of 3 is: 27

Number is: 4 and cube of 4 is: 64

Number is: 5 and cube of 5 is: 125

/\*

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1. Write a program in Java to make such a pattern like a pyramid with a number which will repeat the number in the same row.

1

2 2

3 3 3

4 4 4 4

\*/

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.print("Enter number of rows: ");

int x=sc.nextInt();

for(int i=1; i<=x; i++) {

for(int j=x; j>i; j--)

System.out.print(" ");

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

System.out.print(i+" ");

System.out.println();

}

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Enter number of rows: 5

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

/\*

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5. Write a Java program to get current full date and time.

\*/

import java.util.\*;

public class Main {

public static void main(String[] args) {

Date d=new Date();

System.out.println("Current status: "+d);

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Current status: Wed Mar 22 21:46:46 IST 2023

/\*

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6. Write a Java program to get a day of the week of a specific date.

\*/

import java.time.\*;

import java.time.format.\*;

import java.util.\*;

public class Main {

public static void main(String[] args) {

LocalDate d=LocalDate.of(2003, 10, 18);

String day=d.getDayOfWeek().getDisplayName(TextStyle.FULL, Locale.getDefault());

System.out.println("Day = "+day);

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Day = Saturday

/\*

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Section : AI & ML

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7. : Write a Java program to calculate your age.

\*/

import java.util.\*;

import java.time.\*;

public class Main {

public static void main(String args[]) {

Scanner sc=new Scanner(System.in);

System.out.print("Enter DOB in YYYY-MM-DD format: ");

String x=sc.nextLine();

LocalDate dob=LocalDate.parse(x);

LocalDate td=LocalDate.now();

int age=Period.between(dob, td).getYears();

System.out.println("Age = "+age);

}

}

\*\*\*\*\*OUTPUT\*\*\*\*\*

Enter DOB in YYYY-MM-DD format: 2003-10-18

Age = 19