**Write program to find whether a given year is a leap year or not.**

Package main.java;

import java.util.scanner;

class LeapYear{

public static void main(String[] arg){

int a;

scanner sc=new scanner(System.in);

System.out.println(“ENTER YEAR ”);

a=scanner.nextInt();

if (a%4==0 && a%100!=0) || a%400==0)

System.out.println(a+ “YOU ARE ENTERED LEAP YEAR ”);

Else

System.out.println(a+ “YOU ARE ENTERED NORMAL YEAR ”);

}

} y((% 4 ==0) && (year % 100 !=0)) || (year % 400==0)

ear

1. **program** **to** **read roll no, name and marks of three subjects and calculate the total, percentage and division**Test Data :  
   Input the Roll Number of the student :784  
   Input the Name of the Student :James  
   Input the marks of Physics, Chemistry and Computer Application : 70 80 90  
   Expected Output :  
   Roll No : 784  
   Name of Student : James  
   Marks in Physics : 70  
   Marks in Chemistry : 80  
   Marks in Computer Application : 90  
   Total Marks = 240  
   Percentage = 80.00  
   Division = First

import java.util.scanner;

class StudentMarks{

public static void main(String[] arg){

scanner sc=new scanner(System.in);

System.out.println(“ENTER ROLL NO= ”);

int rollNo=sc.nextInt();

System.out.println(“ENTER NAME= ”);

string name=sc.nextLine();

System.out.println(“ENTER MARKS IN PHYSICS= ”);

float marks1=sc.nextFloat();

System.out.println(“ENTER MARKS IN CHEMISTRY= ”);

float marks2=sc.nextFloat();

System.out.println(“ENTER MARKS IN COMPUTER SCIENCE= ”);

float marks3=sc.nextFloat();

double total= marks1+marks2+marks3;

double percentage=(marks1+marks2+marks3/300)\*100;

System.out.println(“ROLL NO IS ” +rollNo);

System.out.println(“NAME IS= ” +name);

System.out.println(“MARKS IN PHYSICS= ” +marks1);

System.out.println(“MARKS IN CHEMISTRY= ” +marks2);

System.out.println(“ENTER MARKS IN COMPUTER APPLICATION= ” +marks3);

System.out.println(“PERCENTAGE = ” +percentage);

System.out.println(“TOTAL MARKS = ” +totalMarks);

if (percentage>90)

System.out.println(“1ST DIVISION= ” +percentage);

Else

System.out.println(“2nd DIVISION=” +percentage);

}

}

1. **program to read temperature in centigrade and display a suitable message**

import java.util.scanner;

class Temp{

public static void main(String[] arg){

scanner sc=new scanner(System.in);

System.out.println(“ENTER TEMPERATURE IN CENTIGRADE= ”);

Float tempCentigrade=sc.nextFloat();

System.out.println(“TEMPERATURE IS ” +tempCentigrade+ “IN CENTIGRADE”);

}

}

1. **program to check whether a character is an alphabet, digit or special character.**

import java.util.scanner;

class AlphaDigitSpe{

public static void main(String[] arg){

System.out.println(“ENTER ALPHA DIGIT OR SPECIAL CHARACTER ”);

If(ch==a|| ch==b|| ch==c|| ch==d|| ch==e|| ch==f|| ch==g|| ch==h|| ch==i|| ch==j|| ch==k|| ch==l|| ch==m|| ch==n|| ch==o|| ch==p|| ch==q|| ch==r|| ch==s|| ch==t|| ch==u|| ch==v|| ch==w|| ch==x|| ch==y|| ch==z||)

System.out.println(“CHARACTER is ALPHABET ”);

else if(If(ch==’A’| ch==’B’|| ch==’C’|| ch==’D’|| ch==’E’|| ch==’F’|| ch==’G’|| ch==’H’|| ch==’I’|| ch==’J’|| ch==’K’|| ch==’L’|| ch==’M’|| ch==’N’|| ch==’O’|| ch==’P’|| ch==’Q’|| ch==’R’|| ch==’S’|| ch==’T’|| ch==’U’|| ch==’V’|| ch==’W’|| ch==’X’|| ch==’Y’|| ch==’Z’||)

System.out.println(“CHARACTER IS ALPHAPET ”);

Else if(int=’0’ || int=’1’ || int=’2’ || int=’3’ || int=’4’ || int=’5’ || int=’6’ || int=’7’ || int=’8’ || int=’9’ || int=’10’ || )

System.out.println(“THIS IS NUMBER ”);

else if(If(ch==’~’| ch==’!’|| ch==’#’|| ch==’$’|| ch==’%’|| ch==’^’|| ch==’&’|| ch==’\*’|| ch==’(’|| ch==’)’|| ch==’\_’|| ch==’=’|| ch==’;’|| ch==’:’|| ch==’’’|| ch==’”’|| ch==’,’|| ch==’<’|| ch==’.’|| ch==’>’|| ch==’’|| ch==’/’|| ch==’?’|| ch==’X’)

System.out.println(“THIS IS SPECIAL CHARACTER ”);

}

}

**5.Write a program in to accept a grade and declare the equivalent description**

|  |  |
| --- | --- |
| **Grade** | **Description** |
| E | Excellent |
| V | Very Good |
| G | Good |
| A | Average |
| F | Fail |

Test Data :  
Input the grade :A  
*Expected Output* :  
You have chosen : Average

import java.util.scanner;

class Grade{

public static void main(String[] arg){

scanner sc=new scanner(System.in);

System.out.printin(“ENTER GRADE= ”);

char grade=scanner.nextCh();

switch(grade)

{

case ‘A’,’a’:System.out.println(“AVERAGE”);

break;

case ‘G’,’g’:

System.out.println(“GOOD”);

break;

case ‘V’,’v’:

System.out.println(“VERY GOOD”);

break;

case ‘E’,’e’:

System.out.println(“EXCELLENT”);

break;

default: System.out.println(“FAIL”);

}

}

}

**6.Write a program to read any day number in integer and display day name in the word.**

import java.util.scanner;

class DaysName{

public static void main(String[] arg){

scanner sc=new scanner(System.in);

System.out.printin(“ENTER DAY NAME= ”);

Int dayName=scanner.nextInt();

Switch(dayName)

{

Case ‘1’:

System.out.println(“MONDAY”);

break;

case ‘2’:

System.out.println(“TUESDAY”);

break;

case ‘3’:

System.out.println(“WEDNESDAY”);

break;

case ‘4’:

System.out.println(“THURSDAY”);

break;

case ‘5’:

System.out.println(“FRIDAY”);

break;

case ‘6’:

System.out.println(“SATURDAY”);

break;

case ‘7’:

System.out.println(“SUNDAY”);

break;

default: System.out.println(“INVALID INPUT! PLEASE CHECK IT ”);

}

}

}

**7.Read integer value and display the number of days for this month.**

import java.util.scanner;

class MonthName{

public static void main(String[] arg){

scanner sc=new scanner(System.in);

System.out.printin(“ENTER MONTH NO= ”);

Int monthNo=scanner.nextInt();

Switch(monthNo)

{

case ‘1’:System.out.println(“31 DAYS IN JANUARY”);

break;

case ‘2’:

System.out.println(“28 DAY IN FEBRUARY”);

break;

case ‘3’:

System.out.println(“31 DAYS IN MARCH ”);

break;

case ‘4’:

System.out.println(“30 DAYS IN APRIL”);

break;

case ‘5’:System.out.println(“31 DAYS IN MAY”);

break;

case ‘6’:

System.out.println(“30 DAYS IN JUNE”);

break;

case ‘7’:

System.out.println(“31 DAYS IN JULY”);

break;

case ‘8’:

System.out.println(“31 DAYS IN AUGUST”);

break;

case ‘9’:

System.out.println(“30 DAYS IN SEPTEMBER”);

break;

case ‘10’:

System.out.println(“31 DAYS IN OCTOBER”);

break;

case ‘11’:

System.out.println(“30 DAYS IN NOVEMBER”);

break;

case ‘12’:

System.out.println(“31 DAYS IN DECEMBER”);

break;

default: System.out.println(“INVALID INPUT! PLEASE CHECK IT”);

}

}

}