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1. Write program to find whether a given year is a leap year or not.
package Assignment3;
import java.util.Scanner;
public class Leap_Year {
public static void main(String[] args) {
 // TODO Auto-generated method stub
 int year;
 Scanner scanner=new Scanner(System.in); //creating scanner to take input from user
 System.out.println("Enter a year");
     year=scanner.nextInt();
                                       //nextInt is used to scanner integer
 if(year %4==0) //condition for leap year
     System.out.println("It is leap year"); //true
 else
 System.out.println("It is not leap year"); //else condition
2. Program to read roll no, name and marks of three subjects and calculate the total, percentage and divisi
on
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
--->
package Assignment3;
import java.util.Scanner;
public class CalculatePercentage {
public static void main(String[] args) {
 // TODO Auto-generated method stub
     Scanner scanner = new Scanner(System.in);
     System.out.println("Enter roll no.: ");
     int rollNo = scanner.nextInt();
     System.out.println("Enter Student Name: ");
     String studName = scanner.next();
    System.out.println("Marks of English: ");
     int englishMarks = scanner.nextInt();
     System.out.println("Marks of Maths: ");
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int mathsMarks = scanner.nextInt();
     System.out.println("Marks of Science: ");
     int scienceMarks = scanner.nextInt();
     double totalMarks = englishMarks + mathsMarks + scienceMarks; //calculate total
     double percentage=(totalMarks/300*100);
                                                 //to calculate percentage
     System.out.println("Roll No.: "+rollNo);
     System.out.println("Name: "+studName);
     System.out.println("English: "+englishMarks);
     System.out.println("Maths: "+mathsMarks);
     System.out.println("Science: "+scienceMarks);
     System.out.println("Total Marks: "+totalMarks);
                                                     //printing total marks
     System.out.println("Percenage: "+percentage);
     if(percentage>=80)
     System.out.println("Frist Class");
     else if(percentage>=60)
     System.out.println("Second Class");
     else if(percentage>=40)
     System.out.println("Thrid Class");
     }
     else
     System.out.println("Failed");
3.program to read temperature in centigrade and display a suitable message
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import java.util.Scanner;
public class Temperature {
public static void main(String[] args) {
 // TODO Auto-generated method stub
   Scanner scanner=new Scanner(System.in);
   System.out.println("Enter the Temperature: ");
   int temp=scanner.nextInt();
   if(temp <= 0)
   System.out.println("Freezing");
   else if(temp>=1&&temp<=20)
   System.out.println("Cold");
   else if(temp>=21&&temp<=30)
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System.out.println("Normal");
   else if(temp>=31&&temp<=40)
   System.out.println("Hot");
   else if(temp>40)
   System.out.println("Very Hot");
}
}
4.program to check whether a character is an alphabet, digit or special character
package Assignment3;
import java.util.Scanner;
public class CheckCharacter {
public static void main(String[] args) {
 // TODO Auto-generated method stub
     Scanner scanner=new Scanner(System.in);
     System.out.println("Enter any Character");
     char ch=scanner.next().charAt(0);
     if(ch>='a'\&\&ch<='z' || ch>='A'\&\&ch<='B')
     System.out.println("It is a Alphabet");
     else if(ch>='0'&&ch<='9')
     System.out.println("It is a Digit");
     }
     else
     System.out.println("It is a Special Charater");
}
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
package Assignment3;
import java.util.Scanner;
public class Grades {
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public static void main(String[] args) {
 // TODO Auto-generated method stub
  Scanner scanner = new Scanner(System.in);
  System.out.println("Enter the Grades");
  char grades = scanner.next().charAt(0);
  switch(grades)
  {
  case 'a','A':
   System.out.println("Average");
  break;
  case 'g', 'G':
   System.out.println("Good");
  break:
  case 'e', 'E':
   System.out.println("Excellent");
  break;
  case 'v', 'V':
   System.out.println("Very good");
  break:
  case 'f', 'F':
   System.out.println("Fail");
  break;
  default:
   System.out.println("Invalid");
  }
6. Write a program to read any day number in integer and display day name in the word
package Assignment3;
import java.util.Scanner;
public class DayName {
public static void main(String[] args) {
 // TODO Auto-generated method stub
 Scanner scanner = new Scanner(System.in);
   System.out.println("Enter the Integer");
   int Day = scanner.nextInt();
   switch(Day)
   case 1:
   System.out.println("Sunday");
   // System.out.println("1.Sunday" + "\n2.Monday" + "\n3.Tuesday" + "\n4.Wednesday" + "\n5.Thursday"
+ "\n6.Friday" + "\n7.Saturday");
   break;
   case 2:
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System.out.println("Monday");
   break:
   case 3:
   System.out.println("Tuesday");
   break;
   case 4:
   System.out.println("Wednesday");
   case 5:
   System.out.println("Thursday");
   break:
   case 6:
   System.out.println("Friday");
   break;
   case 7:
   System.out.println("Saturday");
   break;
   default:
   System.out.println("Invalid");
}
}
7. Read integer value and display the number of days for this month.
package Assignment3;
import java.util.Scanner;
public class MonthDays {
public static void main(String[] args) {
 // TODO Auto-generated method stub
     Scanner scanner=new Scanner(System.in);
     System.out.println("Enter Day: ");
     int day=scanner.nextInt();
     /*if(day==31 || day==30)
     System.out.println("April" + "\nJune" + "\nSep" + "\nNov");
     else if(day==28 \&\& day==29)
     System.out.println("Feb");
     else
     System.out.println("\nJanuary" + "\nMarch" + "\nMay" + "\nJuly" + "\nAugust" + "\nOct" + "\nDec");
     }*/
     switch(day)
     case 1:
     System.out.println("31 days in:" + "\nJanuary" + "\nMarch" + "\nMay" + "\nJuly" + "\nAugust" + "\nOct
" + "\nDec");
     break;
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case 2:
    System.out.println("30 days in:"+ "\nApril" + "\nJune" + "\nSep" + "\nNov");
break;
case 3:
    System.out.println("28 or 29 days in:" + "\nFeb");
break;
}
```