//program to check whether character is an alphabet,digit or special characters

**package** Java;

**import** java.util.Scanner;

**public** **class** character {

**public** **static** **void** main(String[] args) {

**char** ch;

System.***out***.println("enter choice");

Scanner sc=**new** Scanner(System.***in***);

ch=sc.next().charAt(0);

**if**(ch>='A'&ch<='Z'||ch>='a'&ch<='z')

{

System.***out***.println("Alphabet");

}

**else** **if**(ch>='0'&ch<='9')

{

System.***out***.println("Digits");

}

**else** **if**(ch=='!'||ch=='@'||ch=='#'||ch=='$'||ch=='%'||ch=='^'||ch=='&'||ch=='\*')

{

System.***out***.println("symbol");

}

**else**

{

System.***out***.println("invalid choice");

}

}

}

Output1:

enter choice

a

Alphabet

Output2:

enter choice

9

Digits

Output3:

enter choice

#

Symbol

//prgram to read any day number in integer and display day name in the word

**package** Java;

**import** java.util.Scanner;

**public** **class** days {

**public** **static** **void** main(String[] args) {

**int** day;

System.***out***.println("enter your choice");

Scanner sc=**new** Scanner(System.***in***);

day=sc.nextInt();

**switch**(day)

{

**case** 1:System.***out***.println("sunday");

**break**;

**case** 2:System.***out***.println("monday");

**break**;

**case** 3:System.***out***.println("tuesday");

**break**;

**case** 4:System.***out***.println("wednesday");

**break**;

**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");

}

// **TODO** Auto-generated method stub

}

}

**Output:**

enter your choice

5

Thursday

//program to accept grade and declare the equivalent description

**package** Java;

**import** java.util.Scanner;

**public** **class** grade1 {

**public** **static** **void** main(String[] args) {

**char** grade;

System.***out***.println("enter grade");

Scanner sc=**new** Scanner(System.***in***);

grade=sc.next().charAt(0);

**switch**(grade)

{

**case** 'A':System.***out***.println("Average");

**break**;

**case** 'E':System.***out***.println("Excellent");

**break**;

**case** 'V':System.***out***.println("Very good");

**break**;

**case** 'G':System.***out***.println("Good");

**break**;

**case** 'F':System.***out***.println("Fail");

**break**;

**default**:System.***out***.println("invalid grade");

}

}

}

**Output:**

enter grade

E

Excellent

//program to check whether given year is leap or not

**package** Java;

**import** java.util.Scanner;

**public** **class** leapyear {

**public** **static** **void** main(String[] args) {

**int** year;

System.***out***.println("enter year");

Scanner sc=**new** Scanner(System.***in***);

year=sc.nextInt();

**if**(year%4==0)

{

System.***out***.println("leap year");

}

**else** **if**(year%400==0)

{

System.***out***.println("leap year");

}

**else** **if**(year%100==0)

{

System.***out***.println("leap year");

}

**else**

{

System.***out***.println("not leap year");

}

// **TODO** Auto-generated method stub

}

}

**Output1:**

enter year

2020

leap year

output2:

enter year

2021

not leap year

//read integer value and display the number of days for this month

**package** Java;

**import** java.util.Scanner;

**public** **class** months {

**public** **static** **void** main(String[] args) {

String month;

System.***out***.println("enter month");

Scanner sc=**new** Scanner(System.***in***);

month=sc.next();

**switch**(month)

{

**case** "january" :

**case** "march" :

**case** "may" :

**case** "july" :

**case** "aug" :

**case** "oct" :

**case** "dec" :System.***out***.println("31 days");

**break**;

**case** "april" :

**case** "june" :

**case** "sep" :

**case** "nov" :System.***out***.println("30 days");

**break**;

**case** "feb" :System.***out***.println("28");

**break**;

**default**: System.***out***.println("invalid month");

}

// **TODO** Auto-generated method stub

}

}

**Output1:**

enter month

oct

31 days

Output2:

enter month

feb

28

Output3:

enter month

sep

30 days

//program to read rollno,name,marks in three subjects and calculate the total,percentage and division.

**package** Java;

**import** java.util.Scanner;

**public** **class** Student {

**public** **static** **void** main(String[] args) {

**int** rollno;

System.***out***.println("enter roll no");

Scanner sc=**new** Scanner(System.***in***);

rollno=sc.nextInt();

System.***out***.println(rollno);

String name;

System.***out***.println("enter name");

name=sc.next();

System.***out***.println(name);

**int** m1,m2,m3;

System.***out***.println("enter marks in each physics");

m1=sc.nextInt();

System.***out***.println("enter m1 in phy =" +m1);

System.***out***.println("enter marks in each chemistry");

m2=sc.nextInt();

System.***out***.println("enter marks in chem =" +m2);

System.***out***.println("enter marks in each computer application");

m3=sc.nextInt();

System.***out***.println("enter marks in cs =" +m3);

**int** total;

total=m1+m2+m3;

System.***out***.println("total is = " +total);

**float** percentage=total\*0.333f;

System.***out***.println("percentage is = " +percentage);

**if**(percentage>=80)

{

System.***out***.println(" division = first");

}

**else** **if**(percentage>=60)

{

System.***out***.println(" division = second");

}

**else** **if**(percentage>=35)

{

System.***out***.println("division = third");

}

**else**

{

System.***out***.println("division = fail");

}

}

// **TODO** Auto-generated method stub

}

**Output:**

enter roll no

101

101

enter name

james

james

enter marks in each physics

70

enter m1 in phy =70

enter marks in each chemistry

80

enter marks in chem =80

enter marks in each computer application

90

enter marks in cs =90

total is = 240

percentage is = 79.92

division = second

//program to read temp in centigrade and display suitable message

**package** Java;

**import** java.util.Scanner;

**public** **class** tempertature {

**public** **static** **void** main(String[] args) {

**float** temp;

System.***out***.println("enter temperature");

Scanner sc=**new** Scanner(System.***in***);

temp=sc.nextFloat();

**if**(temp>=27)

{

System.***out***.println("wheather is hot");

}

**else**

{

System.***out***.println(" wheather is cold");

}

}

}

**Output:**

enter temperature

30

wheather is hot