**1.Write a program that takes a number from the user between 1 to 12 and displays the name of the month.**

**package** MathanProject;

**import** java.util.\*;

**public** **class** MonthDisplay {

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

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

System.***out***.println("ENTER A NUMBER BETWEEN 1 to 12 TO DISPLAY THE MONTH : ");

**int** monthnum = sc.nextInt();

String month = *getMonthName*(monthnum);

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

}

**public** **static** String getMonthName(**int** monthnum) {

**switch** (monthnum) {

**case** 1:**return** "1st MONTH IS JANUARY";

**case** 2: **return** "2nd MONTH IS FEBRUARY";

**case** 3: **return** "3rd MONTH IS MARCH";

**case** 4: **return** "4th MONTH IS APRIL";

**case** 5: **return** "5th MONTH IS MAY";

**case** 6: **return** "6th MONTH IS JUNE";

**case** 7: **return** "7th MONTH IS JULY";

**case** 8: **return** "8th MONTH IS AUGUST";

**case** 9: **return** "9th MONTH IS SEPTEMBER";

**case** 10: **return** "10th MONTH IS OCTOBER";

**case** 11: **return** "11th MONTH IS NOVEMBER";

**case** 12: **return** "12th MONTH IS DECEMBER";

**default**: **return** "MONTH DOESN'T EXIST";

}}

}

**2. Write a program to display calculated result of two numbers based on the mathematical operator**

**package** MathanProject;

**import** java.util.\*;

**public** **class** Calculator {

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

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

System.***out***.println("ENTER THE 1st VALUE :");

**double** num1 = sc.nextDouble();

System.***out***.println("ENTER THE 2nd VALUE :");

**double** num2 = sc.nextDouble();

System.***out***.println("ENTER THE OPERATOR : +,-,\*,/ :");

**char** operator = sc.next().charAt(0);

**double** result;

**switch** (operator) {

**case** '+':

result = num1 + num2;

**break**;

**case** '-':

result = num1 - num2;

**break**;

**case** '\*':

result = num1 \* num2;

**break**;

**case** '/':

**if** (num2 != 0) {

result = num1 / num2;

System.***out***.println("the result is :" + result);

} **else** {

System.***out***.println("ERROR OCCURED!");

**return**;

}

**break**;

**default**: {

System.***out***.println("INVALID INPUT");

**return**;

}

}

System.***out***.println("the result is :" + result);

}

}

**3. Write a Program to check the grade based on marks obtained by students.**

**package** MathanProject;

**import** java.util.\*;

**public** **class** StudentGrade {

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

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

System.***out***.println("Enter the Percentage :");

**double** Percentage=sc.nextDouble();

**char** Grade = 0;

**if**(Percentage >=60) {

Grade='A';

}**else** **if**(Percentage>=45) {

Grade='B';

}**else** **if**(Percentage>=35) {

Grade='C';

}**else**

{

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

}

System.***out***.println("The Grade is :"+ Grade);

}

}

}

**4. Write a program to add two complex numbers.**

**package** MathanProject;

**import** java.util.Scanner;

**public** **class** Complex {

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

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

System.***out***.println("Enter the first real number:");

**int** a=pk.nextInt();

System.***out***.println("Enter the first image value:");

**int** b=pk.nextInt();

System.***out***.println("Enter the second real value:");

**int** c=pk.nextInt();

System.***out***.println("Enter the second imaginary value:");

**int** d=pk.nextInt();

**int** real1=a+c;

**int** imaginary=b+d;

System.***out***.println(real1+"+i"+imaginary);

}

}

**5. Write a program to check if a given integer is Odd or Even.**

**package** MathanProject;

**import** java.util.\*;

**public** **class** OddorEven {

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

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

System.***out***.println("ENTER THE NUMBER:");

**double** value=sc.nextDouble();

**if**(value%2==0)

System.***out***.println(value +”: IS EVEN NUMBER");

**else**

System.***out***.println(value+”: IS ODD NUMBER");

}

}

**6. Write a program to find the largest of three numbers.**

**package** MathanProject;

**import** java.util.\*;

**public** **class** LargestNum {

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

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

System.***out***.println("Enter the number1 :");

**int** num1=sc.nextInt();

System.***out***.println("Enter the number2 :");

**int** num2=sc.nextInt();

System.***out***.println("Enter the number3 :");

**int** num3=sc.nextInt();

**if** (num1>num2 & num1>num3) {

System.***out***.println(num1+" : is Largest Number");

}

**else** **if** (num2>num1 & num2>num3) {

System.***out***.println(num2+" : is Largest Number");

}**else**

System.***out***.println(num3 +" : is Largest Number");

}

}

**7. Write a program to find LCM of two numbers.**