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ICM 106 OR23106564

PROGRAMMING FUNDAMENTALS WEEK – 06 ASSIGNMENT

**Question 01**

class Demo {

public static void printMyMethod(){

System.out.println("Hello JAVA...");

}

public static void main(String args[]) {

printMyMethod();

}

}

**Question 02**

class Demo {

public static void printMyDetails(){

System.out.println("My Name Is Darshana");

System.out.println("i`m 33 Years Old");

}

public static void main(String args[]) {

printMyDetails();

}

}

**Question 03**

class Example {

public static void printAlphabet(){

for(char i = 65, j=97 ; i<91 ; i++,j++){

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

}

}

public static void main(String args[]) {

printAlphabet();

}

}

**Question 04**

import java.util.\*;

class Example {

public static void printStringInput(){

Scanner input = new Scanner(System.in);

System.out.print("Please enter String : ");

String stringInput = input.next();

System.out.println(stringInput);

}

public static void main(String args[]) {

printStringInput();

}

}

**Question 05**

import java.util.\*;

class Example {

public static void leapYearOrNot(int year){

if(year % 4 == 0){

if(year % 100 == 0){

if(year % 400 == 0){

System.out.println(" "+year+" is leap year");

}else{

System.out.println(" "+year+" is not a leap year");

}

}else{

System.out.println(" "+year+" is leap year");

}

}else{

System.out.println(" "+year+" is not a leap year");

}

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter year : ");

int inputYear = input.nextInt();

leapYearOrNot(inputYear);

}

}

**Question 06**

class Example {

public static void compareNumbers(int a, int b){

char symbol ='=';

if(a<b){

symbol = '<';

}else if(a>b){

symbol = '>';

}

System.out.print(" "+a+" "+symbol+" "+b);

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter number 01 : ");

int num1 = input.nextInt();

System.out.print(" Please enter number 02 : ");

int num2 = input.nextInt();

compareNumbers(num1,num2);

}

}

**Question 07**

**i**

In program 01 Input, output all the steps done by the printName() method. Main method only doing calling the printName() method.

In program 02 only output done by the printName() method by taking the input as String name1, String name2 with parameterized method. Main method taking inputs and passing to the printName(name1,name2) method via parameterized method.

**Ii**

No. Because printName(); must have 2 String inputs in order to run. If not, it will throw the compile error.

**Question 08**

import java.util.\*;

class Example {

public static boolean compareFirstLetter(String word1, String word2){

char letter1 = word1.toLowerCase().charAt(0);

char letter2 = word2.toLowerCase().charAt(0);

return letter1==letter2;

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter Word 01 : ");

String w1 = input.nextLine();

System.out.print(" Please enter Word 02 : ");

String w2 = input.nextLine();

System.out.println(" "+compareFirstLetter(w1,w2));

}

}

**Question 09**

import java.util.\*;

class Example {

public static void decimalRoundTwo(double num1){

System.out.printf(" %1.2f",num1);

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter decimal number : ");

double num = input.nextDouble();

decimalRoundTwo(num);

}

}

**Question 10**

import java.util.\*;

class Example {

public static void howMuchMoneyDeposit(double sum){

double monthIntrest = 20.0/12;

System.out.printf(" amount you Need To deposit : %,.2f",(sum\*100/(20.0/12)));

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter your desired monthly income : ");

int amount = input.nextInt();

howMuchMoneyDeposit(amount);

}

}

**Question 11**

import java.util.\*;

class Example {

public static void convertFahernKelvin(double tem){

System.out.printf(" Fahrenheit Tempeture : %1.2f %n",(tem\*9)/5+32);

System.out.printf(" Kelvin Tempeture : %1.2f",tem+273.15);

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter Celsius Value : ");

double temp = input.nextDouble();

convertFahernKelvin(temp);

}

}

**Question 12**

import java.util.\*;

class Example {

public static void calPeriAndArea(double angle ,double radius){

System.out.println(" perimeter is : "+(angle/360)\*2\*(22/7)\*radius);

System.out.println(" area is : "+(angle/360)\*(22/7)\*radius\*radius);

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter angle : ");

double angle = input.nextInt();

System.out.print(" Please enter radius : ");

double radius = input.nextInt();

calPeriAndArea(angle,radius);

}

}

**Question 13**

import java.util.\*;

class Example {

public static void calQuad(int a, int b){

System.out.println(" Answer is : "+a\*a+(a+b)\*a+a\*b);

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Please enter Celsius Value : ");

int x1 = input.nextInt();

System.out.print(" Please enter Celsius Value : ");

int x2 = input.nextInt();

calQuad(x1,x2);

}

}

**Question 14**

import java.util.\*;

class Calculator {

public static void add(int a ,int b){

System.out.println(" "+a+" + "+b+" : "+(a+b));

}

public static void subtraction(int a ,int b){

System.out.println(" "+a+" - "+b+" : "+(a-b));

}

public static void multiplication(int a ,int b){

System.out.println(" "+a+" \* "+b+" : "+(a\*b));

}

public static void dividend(int a ,int b){

System.out.println(" "+a+" / "+b+" : "+(a/b));

}

public static void reminder(int a ,int b){

System.out.println(" "+a+" % "+b+" : "+(a%b));

}

public static void power(int a ,int b){

int tem = a;

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

tem\*=a;

}

System.out.println(" "+a+" ^ "+b+" : "+tem);

}

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter the first number : ");

int num1 = input.nextInt();

System.out.print(" Enter the second number : ");

int num2 = input.nextInt();

System.out.print(" Enter the operator (+,-,\*,/,%,^) : ");

char operator = input.next().charAt(0);

switch(operator){

case '+': add(num1,num2);break;

case '-': subtraction(num1,num2);break;

case '\*': multiplication(num1,num2);break;

case '/': dividend(num1,num2);break;

case '%': reminder(num1,num2);break;

case '^': power(num1,num2);break;

}

}

}

**Question 15**