**Solutions to Assignments**

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**Solution 1:**

**package** pack;

**public** **class** Welcome {

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

System.***out***.println(" Welcome to the world of java ");

}

}

**Solution 2:**

**package** pack;

//this program is to take input from command line

**public** **class** Command {

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

System.***out***.println("Message from args : "+ args[0]);

}

}

**Solution 3:**

**package** pack;

// This demo program to understand comment in java

**public** **class** Comment {

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

System.***out***.println("Now we have understood that how to write comments in java");

/\*

\* This is nested comment to understand the concept of comments in java

\*

\*/

}

}

**Solution 4:**

**package** pack;

// This Program is to understand concept of Datatype

**public** **class** Datatypes {

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

**int** intData=10;

**float** floatData = (**float**) 10.67;

**double** doubleData = 10.8585654;

**long** longData = 90856524135l;

System.***out***.println("This is for int Datatype:"+intData);

System.***out***.println("This is for float Datatype:"+floatData);

System.***out***.println("This is for double Datatype:"+doubleData);

System.***out***.println("This is for long Datatype:"+longData);

}

}

**Solution 5:**

**package** pack;

**import** java.util.Scanner;

//This demo code to swap two variable

**public** **class** Operator {

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

**try** (Scanner sc = **new** Scanner(System.***in***)) {

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

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

System.***out***.println("Enter second number :");

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

//without using third variable

x = x + y;

y = x - y;

x = x -y;

//After swapping printing the value

System.***out***.println("After Swapping value of first number :"+x);

System.***out***.println("After Swapping value of first number :"+y);

}

}

}

**Solution 6:**

**package** pack;

**import** java.util.Scanner;

// program for conditional operator

**public** **class** Conditional\_Operator {

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

**try** (Scanner sc = **new** Scanner(System.***in***)) {

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

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

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

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

}

**else** {

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

}

}

}

}

**Solution 7:**

**package** pack;

**import** java.util.Scanner;

// code for largest of three numbers

**public** **class** Conditional\_Statement {

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

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

System.***out***.println("Enter no. 1 :");

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

System.***out***.println("Enter no. 2 :");

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

System.***out***.println("Enter no. 3 :");

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

**if**(x>y || x>z)

System.***out***.println(x+ " is the greatest of all three numbers");

**else** **if**(y>z || y>x)

System.***out***.println(y+ " is the greatest of all three numbers");

**else**

System.***out***.println(z+ " is the greatest of all three numbers");

}

}

**Solution 8:**

**package** pack;

**import** java.util.Scanner;

//Program for check whether number is pallindrome using any loop

**public** **class** Pallindrome\_For\_Loop {

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

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

**int** n = 453;

**int** rev,sum=0;

**int** temp=n;

**while**(n>0) {

rev = n%10;

sum = (sum\*10)+rev;

n = n/10;

}

**if**(temp == sum)

System.***out***.println("This is Pallindrome");

**else**

System.***out***.println("This is not Pallindrome");

}

}

**Solution 9:**

**package** pack;

// code to display fibbonacci series upto 200

**public** **class** Fibbonacci {

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

**int** count=200;

**int** num1=0;

**int** num2=1;

System.***out***.print("Fibonacci Series of "+count+" numbers:");

**for**(**int** i=0; i<=count; ++i) {

System.***out***.print(num1+" ");

**int** SumOfPrev = num1 + num2;

num1 = num2;

num2 = SumOfPrev;

}

}

}

**Solution 10:**

**Solution 11:**

**package** pack;

//code for selection sort in java

**public** **class** Selection\_Sort {

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

**int** array[] = {10, 20, 25, 63, 96, 57};

**int** size = array.length;

**for**(**int** i = 0 ;i< size-1; i++){

**int** min = i;

**for**(**int** j = i+1; j<size; j++){

**if** (array[j] < array[min]){

min = j;

}

}

**int** temp = array[min];

array[min] = array[i];

array[i] = temp;

}

**for** (**int** i = 0 ;i< size; i++){

System.***out***.print(" "+array[i]);

}

}

}

**Solution 12:**

**package** pack;

**import** java.util.Scanner;

**public** **class** Switch\_Case {

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

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

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

**int** n = s.nextInt();

**float** pro1= (**float**) 22.50;

**float** pro2 = (**float**) 44.50;

**float** pro3= (**float**) 9.98;

**switch**(n) {

**case** 1:

System.***out***.println("Retail Price for Product 1 :"+pro1);

System.***out***.println("How many required :");

**int** count1 = s.nextInt();

System.***out***.println("Total price : "+ pro1 \*count1 );

**break**;

**case** 2:

System.***out***.println("Retail Price for Product 1 :"+pro2);

System.***out***.println("How many required :");

**int** count2 = s.nextInt();

System.***out***.println("Total price : "+ pro2 \*count2 );

**break**;

**case** 3:

System.***out***.println("Retail Price for Product 1 :"+pro3);

System.***out***.println("How many required :");

**int** count3 = s.nextInt();

System.***out***.println("Total price : "+ pro3 \*count3 );

**break**;

**default**:

System.***out***.println("Enter the valid data !");

**break**;

}

}

}

**Solution 13:**

**package** pack;

**import** java.util.Scanner;

/\*

\* Lab Solution 13

\* Code to understand concept of basic java

\*/

**public** **class** Groos\_Eggs {

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

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

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

System.***out***.println("Enter the number of eggs.");

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

**int** rem=0,gross=0,remDozen=0,dozen=0;

rem=num%144;

gross=(num-rem)/144;

remDozen=rem%12;

dozen=(rem-remDozen)/12;

System.***out***.println("Your number of eggs is "+gross+" gross, "+dozen+" dozen, and "+remDozen);

}

}