

Programme Name: \_\_\_\_\_\_\_\_**BCS HONS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Course Code: \_\_**CSC 2515**\_\_\_\_\_\_\_\_

Course Name: \_\_\_\_\_\_\_\_**Object Oriented Programming**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assignment / **Lab Sheet** / Project / Case Study No. \_**1**\_\_\_

Date of Submission: \_\_\_\_\_\_**11/25/2020**\_\_\_\_\_\_\_\_\_\_\_\_\_

**Submitted By: Submitted To:**

Student Name**: Dipesh Tha Shrestha** Faculty Name**: Som Prasad Shrestha**

IUKL ID: **041902900028** Department**: LMS**

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ans 1:

import java.util.Scanner;

public class LargestNumfinder{

public static void main(String[]args){

int a[]= new int(2);

Scanner s = new Scanner(System.in);

System.out.print("enter two numbers");

for(int i=0; i<a.length(); i++){

a = s.nextInt();

};

if(a[0]< a[1]){

System.out.print(a[1]);}

}}

ans 2:

import java.util.Scanner;

public class OddEvenNumfinder{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any number");

int a = sc.nextInt();

if(a % 2 == 0){

System.out.println("even");}

else

System.out.println("odd");

}}

ans 3:

import java.util.Scanner;

public class Numfinder{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any number");

int a = sc.nextInt();

if(a % 5== 0){

System.out.println("factor of 5 ");}

else

System.out.println("not divisible by 5");

}}

ans 4:

import java.util.Scanner;

public class Numfinder{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any number");

int a = sc.nextInt();

if(a % 2 == 0 && a%5 == 0){

System.out.println("even and divisible by 5");}

else

System.out.println("may be odd and if not is a factor of 5");

}}

ans 5:

import java.util.Scanner;

public class CaseChecker{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any character");

char a = sc.nextLine().charAt(0);

char b = a.toUpperCase();

if(a.equals(b)){

System.out.println("UpperCase");

}

else

System.out.println("LowerCase");

}}

ans 6:

import java.util.Scanner;

public class CaseChecker{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any character");

char a = sc.nextLine().charAt(0);

char b = a.toUpperCase();

System.out.println(b);

}}

ans 7:

import java.util.Scanner;

public class TaxCalculator{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter your income amount");

int price = sc.nextInt();

int tax;

int taxableAmount;

if(price<=100000){

taxableAmount = + 0;

System.out.println("your taxableAmount is" + taxableAmount);

}

elseif(price>100000 && price< 150000){

taxableAmount = (10/100\*price)+ 5000;

System.out.println("your taxableAmount is"+ taxableAmount);

}

else{

taxableAmount = (30/100\*price)+ 25,000;

ystem.out.println("your taxableAmount is "+ taxableAmount);}

}}

ans 8:

import java.util.Scanner;

public class LeapYearfinder{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

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

int a = sc.nextInt();

if(a % 4== 0){

if(a!%100==0){

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

}

elseif(a % 400 == 0){

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

}

}

else{

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

}}

ans 9:

import java.util.Scanner;

public class NetAmountCalculator{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("what do you want to buy");

String cat = sc.nextLine();

System.out.println("enter the price amount range");

int price = sc.nextInt();

int price;

int discount;

int netAmount;

if(cat == "laptop"){

if(price<=25000){

discount = 0;

netAmount = price - discount;

System.out.println("your netAmount is + netAmount);

}

elseif(price>25000 && price<=57000){

discount = 5/100\*price;

netAmount = price - discount;

System.out.println("your netAmount is"+ netAmount);

}

elseif(price >57000 && price <= 100000){

discount = 7.5/100\*price;

netAmount = price - discount;

System.out.println("your netAmount is"+ netAmount);

}

else{

discount = 10/100\*price;

netAmount = price - discount;

System.out.println("your taxableAmount is"+ taxableAmount);}

}

else{

if(price<=25000){

discount = 5/100\*price;;

netAmount = price - discount;

System.out.println("your netAmount is + netAmount);

}

elseif(price>25000 && price<=57000){

discount = 7.5/100\*price;

netAmount = price - discount;

System.out.println("your netAmount is"+ netAmount);

}

elseif(price >57000 && price <= 100000){

discount = 10/100\*price;

netAmount = price - discount;

System.out.println("your netAmount is"+ netAmount);

}

else{

discount = 15/100\*price;

netAmount = price - discount;

System.out.println("your taxableAmount is"+ taxableAmount);}

}

}

}

ans 10:

import java.util.Scanner;

public class AreaCalculator{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("what do you want to find the area of betweeen 1. Rectangle 2. circle 3. square?");

String a = sc.nextLine();

switch(a){

case "rectangle":

System.out.println("length\*breadth");

break;

case "square":

System.out.println("length\*length");

break;

case "circle":

System.out.println("Math.pow(radius, 2)\*Math.pi");

break;

}

}}

ans 11.

public class Ascending{

public static void main(String[]args){

int a = 15; b = 2 ; c = 8;

int d[] = new int(3);

d = {a,b,c};

for (int i = 0; i < n; i++)

{

for (int j = i + 1; j < n; j++)

{

if (d[i] > d[j])

{

temp = d[i];

d[i] = d[j];

d[j] = temp;

}

}

}

for(int i = 0; int< 3; i++){

System.out.print(d[i]+ ",") ;

}

}

}}

ans 12:

import java.util.Scanner;

public class WordChecker{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any character");

int a = sc.nextLine().charAt(0);

if(a <=0 || a>0){

System.out.println("digit");}

else

System.out.println("letter");

}}

ans 13:

import java.util.Scanner;

public class Reverse{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter any integer");

int in = sc.nextInt();

int temp = in;

int n;

int sum;

int r;

int reverse;

while(temp!=0){

temp = temp/10;

r = temp%10;

reverse += reverse\*10+r;

}

System.out.println("reverse of the given integer is"+reverse);}}

ans 14:

import java.util.Scanner;

public class SumCalculator{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter any integer");

int in = sc.nextInt();

int temp = in;

int sum;

int r;

while(temp!=0){

temp= temp/10;

r = temp%10;

sum = sum + r;

System.out.println("the sum is" + sum);

}

}}

ans 15:

import java.util.Scanner;

public class Palindrome{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter any integer");

int in = sc.nextInt();

Arraylist<int>ar = new Arraylist<int>();

int arr[] = new int(n);

int temp = in;

int n;

int sum;

int r;

int reverse;

while(temp!=0){

temp = temp/10;

r = temp%10;

reverse += reverse\*10+r;

}

if(reverse == in )

{

System.out.println("number is palindrome");

}

}}

ans 16:

import java.util.Scanner;

public class Armstrong{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter any integer");

int in = sc.nextInt();

int temp = in;

int n;

int sum;

int r;

while(temp!=0){

temp = temp/10;

n++;}

while(temp!=0){

temp= temp/10;

r = temp%10;

sum = sum + Math.pow(r, n)

}

if(sum== in )

{

System.out.println("number is armstrong");

}

}}

ans 17:

import java.util.Scanner;

public class Absolute{

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

System.out.println("enter any integer");

int in = sc.nextInt();

if(in<0){

in = -(in);

}

System.out.println(in);

}}

ans 18:

import java.util.Scanner;

public class Dayfinder{

public static void main9String[]args){

Scanner sc = new Scanner(System.in);

/System.out.println("enter any integer other than 0");/

int n = sc.nextInt();

if(n == 0 ){

System.out.println("enter any integer other than 0");}

n = n%7;

switch(n){

case 0:

System.out.println("saturday");

break;

case 1:

System.out.println("sunday");

case 2:

System.out.println("monday");

case 3:

System.out.println("tuesday");

case 4:

System.out.println("wednesday");

case 5:

System.out.println("thursday");

case 6:

System.out.println("friday");

}}}

ans 19:

import java.util.Scanner;

public class Attendance{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter total no of classes held");

int hd = sc.nextInt();

System.out.println("enter total no of classes attended");

int ad = sc.nextInt();

int hdper = (ad/hd)\*100%;

if(hdper < 75%){

System.out.println("did you have a medical cause. Write T if yes and N if no");

String s = sc.nextLine();

if(s == "T"){

System.out.println("you are allowed in exam hall. Make sure to bring your medical report. ");

}

else{

System.out.println("you aren't allowed in exam hall");

}

else{

System.out.println("you are allowed in exam hall"

}

}}}

ans 20:

import java.util.Scanner;

public class NatureOfRoots{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter three coefficients for quadratic equations");

int a = sc.nextInt();

int b = sc.nextInt();

int c = sc.nextInt();

int nat = Math.pow(b,2) - 4\*a\*c;

if(nat < 0 ){

System.out.println("roots are unequal imaginary.");}

elseif(nat == 0){

System.out.println("roots are equal and real");}

else{

System.out.println("roots are unequal and real");}

}}

ans 21:

import java.util.Scanner;

public class EqualDecimalDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter two floating numbers having more than 3 decimal digits");

float fn = sc.nextFloat();

float sn = sc.nextFloat();

fn = fn \*1000;

sn = sn\* 1000;

if(fn == sn){

System.out.println("numbers are equal");}

}}

ans 22:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter two numbers having more than 3 digits");

int fn = sc.nextint();

int sn = sc.nextint();

fn = fn%1000;

sn = sn%1000;

if(fn == sn){

System.out.println("numbers are equal");}

}}

ans 23:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter two numbers ");

int fn = sc.nextint();

int sn = sc.nextint();

if(fn >sn)? fn:sn;

}}

ans 24:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter number");

int sn = sc.nextint();

if(sn % 2 == 0)? "even":"odd";

}}

ans 25:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter number");

int sn = sc.nextint();

String s = (sn % 5 == 0)? "divisible by 5":"not divisible by 5";

System.out.println(s);

}}

ans 26:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter number");

int sn = sc.nextint();

String s = (sn % 5 == 0 && sn%2 == 0)? "even divisible by 5":"not divisible by 5 or maynot be even";

System.out.println(s);

}}

ans 27:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

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

int yr = sc.nextint();

String s =(yr%4==0 )? (yr%100!=0)?"leap year":(yr % 400 == 0)("this is leap year"): "not a leap yaer"

}}

ans 28:

import java.util.Scanner;

public class LargeDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter three numbers");

int f = sc.nextint();

int s = sc.nextint();

int t = sc.nextint();

int r = (f>s)? if(f>t)? f: t: if(s>t)? s : t ;

System.out.println(r);

}}

ans 29:

import java.util.Scanner;

public class MonthDays{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter any month number");

int m = sc.nextint();

System.out.println("enter any year number");

int y = sc.nextint();

int lpy = 0;

if(y%4==0){

if(y%100!=0){

lpy = 1;}

else(y%400==0){

lpy = 1;}

else{

lpy =0;}

if(lpy= 1){

switch(m){

case 1:

System.out.println(y +"has" + 31+ "days");}

break;

case 2:

System.out.println(y +"has" + 28+ "days");

break;

case 3:

System.out.println(y +"has" + 31+ "days");

break;

case 4:

System.o8t.println(y +"has" + 30+ "days");

break;

case 5:

System.out.println(y +"has" + 31+ "days");

break;

case 6:

System.out.println(y +"has" + 30+ "days");

break;

case 7:

System.out.println(y +"has" + 31+ "days");

break;

case 8:

System.out.println(y +"has" + 31+ "days");

break;

case 9:

System.out.println(y +"has" + 30+ "days");

break

case 10:

System.out.println(y +"has" + 31+ "days");

break;

case 11:

System.out.println(y +"has" + 30+ "days");

break;

case 12:

System.out.println(y +"has" + 31+ "days");

break;

}

else{

case 1:

System.out.println(y +"has" + 31+ "days");}

break;

case 2:

System.out.println(y +"has" + 29+ "days");

break;

case 3:

System.out.println(y +"has" + 31+ "days");

break;

case 4:

System.out.println(y +"has" + 30+ "days");

break;

case 5:

System.out.println(y +"has" + 31+ "days");

break;

case 6:

System.out.println(y +"has" + 30+ "days");

break;

case 7:

System.out.println(y +"has" + 31+ "days");

break;

case 8:

System.out.println(y +"has" + 31+ "days");

break;

case 9:

System.out.println(y +"has" + 30+ "days");

break

case 10:

System.out.println(y +"has" + 31+ "days");

break;

case 11:

System.out.println(y +"has" + 30+ "days");

break;

case 12:

System.out.println(y +"has" + 31+ "days");

break;

}

ans 30:

import java.util.Scanner;

public class EqualDigits{

public static void main(String[]args){

Scannner sc = new Scanner(System.in);

System.out.println("enter three sides of a triangle");

int a = sc.nextint();

int b = sc.nextint();

int c= sc.nextint();

if(c+a > b && a+b > c && b+c > a ){

System.out.println("triangle is valid");}

if(a==b && b==c){

System.out.println("triangle is eqilateral");}

}

if (a==b || b==c || c==a){

System.out.println("triangle is isoceles");}

if(a!=b && b!=c && c!=a ){

System.out.println("triangle is scalene");}