

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

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

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

Assignment / **Lab Sheet** / Project / Case Study No. \_**3**\_\_\_

Date of Submission: \_\_\_\_\_\_**11/30/2020**\_\_\_\_\_\_\_\_\_\_\_\_\_

**Submitted By: Submitted To:**

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Semester**: Third Semester**

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ans 1 :

public class ThousandTimes {public statc oid main(String2]args){

for (int i = 0; i<100, i++){ System.out.println("hello world");}}} ans 2:

public class Number{ public statc oid main(String2]args){

for (int i = 1; i<=100, i++){ System.out.println(i);}}} ans 3:

import ja a.utl.Scanner; public class NaturalNumber{ public statc oid main(String2]args){

System.out.println("enter the number of natural numbers to be added"); Scanner sc = new Scanner(System.in); int n = sc.nextInt(); int sum=0;

for (int i = 1; i<=n, i++){ sum = sum + i;

System.out.println(sum);

} }}

ans 4:

import ja a.utl.Scanner; public class Fi eSum{ public statc oid main(String2]args){

System.out.println(" you ha e to enter 5 numbers"); int sum=0;

for(int i =0; i<5; i++){

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

int a = sc.nextInt(); sum = sum+ a ;

}

System.out.println(sum); int a erage = sum/5;

System.out.println(a erage);

}}

ans 5:

import ja a.utl.Scanner; public class Cube{ public statc oid main(String2]args){

System.out.println("enter the number up to which you want to see the cubic terms of"); Scanner sc = new Scanner(System.in); int n = sc.nextInt(); int sum =0; for (int i = 1; i<=n, i++){

System.out.println(Math.pow(i,3));

}}}

ans 6:

import ja a.utl.Scanner; public class MultplicatonTable{ public statc oid main(String2]args){

System.out.println("enter the number upto which you want multplicaton table"); Scanner sc = new Scanner(System.in); int sum=0;

for (int i = 1; i<=10, i++){

System.out.println( n+ "\*" + i+ "=" n\*i);

}}}

ans 7: import ja a.utl.Scanner; public class OddNaturalNumber{ public statc oid main(String2]args){

System.out.println("enter the number of natural numbers to be added"); Scanner sc = new Scanner(System.in); int n = sc.nextInt(); int sum=1;

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

System.out.println(sum);

sum = sum +2 ;

}}}

ans 8: import ja a.utl.Scanner; public class RightAngledTriangle{ public statc oid main(String2]args){

System.out.println("enter the number of rows"); Scanner sc = new Scanner(System.in); int n = sc.nextInt();

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

System.out.println(j);

}

}}}

ans 9:

public class RightAngledTriangleFixed{ public statc oid main(String2]args){ for (int i = 1; i<4, i++){ for(int j=1; j<=i; j++){

System.out.println(i);

} }}}

ans 10: public class RightAngledTriangleIncreasing{ public statc oid main(String2]args){ int a = 1;

for (int i = 1; i<n, i++){ for(int j=1; j<=i; j++){ System.out.println(a); a++;

} }}}

ans 11:

public class RightAngledTriangleIncreasing{ public statc oid main(String2]args){

for (int i = 1; i<4, i++){ for(int j=4; j>=i; j++){

System.out.println("");

} for(int k =1 ; k<=i; k++){

System.out.println(k+ " ");}

}}}

ans 12:

import ja a.utl.Scanner; public class FloydsTriangle { public statc oid main(String2]args){

System.out.println("enter the number for foydds triangle"); int n = sc.nextInt();

for (int i = 1; i<n, i++){ for(int j=1; j<=i; j++){ if((i+j)%2==0){ System.out.println(1);} else{

System.out.println(0);}

} }}}

ans 13:

import ja a.utl.Scanner; public class Rhombus { public statc oid main(String2]args){

System.out.println("enter the number for rhombus structure"); int n = sc.nextInt(); int a =6; for (int i = 1; i<n, i++){ for(int j=n; j>=i; j++){

System.out.println(" ");

} if(i>1){ for(int k = 2; k<=i; k++){

System.out.println(k);}}

} for (int i=1; i<=6; i++){ for (int j =1; j<=i+1; j++){

System.out.println(" ");

}

for (a=a a>=i; a--){

System.out.println(a);

} a-for(int l =6; l>i; l--){

System.out.println(8-l);

}

} }}

ans 14:

import ja a.utl.Scanner; public class IntegerSize{ public statc oid main(String2]args){

System.out.println("enter number less than 10 billion");

int n = sc.nextInt(); int p;

int temp= n while(temp!=0){ temp =temp/10; p++;}

System.out.println(p);}}

ans 15:

import ja a.utl.Scanner; public class IntegerSize{ public statc oid main(String2]args){

System.out.println("enter number to fnd the factorial of"); int n = sc.nextInt(); public oid fac(int c){ if(c==0){ return 1;} else{ return c\*fac(c-1);

} }

int fa = fact(n);

System.out.println(fa);

}}

ans 16:

import ja a.utl.Scanner; public class PrimeNumber{ public statc oid main(String2]args){ System.out.println("enter any number");

int n = sc.nextInt();

for(int i=2, i<=n/2; i++){ if(n%i==0){System.out.println("Number is not prime");} else{

System.out.println("Number is prime");}}

}}

ans 17:

import ja a.utl.Scanner; public class Armstrong{ public statc oid main(String2]args){

System.out.println(enter a number); Scanner sc = new Scanner(System.in); int num = sc.nextInt();

int temp; int n;

temp= num;

int r;

int sum; while(temp!=0){ temp = temp/10; n++;}

while(temp!=0){ temp = temp/10; r = temp%10; sum = sum + Math.pow(r, n);} if(sum == num){

System.out.println("Number is not Armstrong");}

else{System.out.println("Number is not Armstrong");

}

}}

ans 18:

import ja a.utl.Scanner; public class CaseCalculaton{ public statc oid main(String2]args){ System.out.println("enter any name");

Scanner sc = new Scanner(System.in); String a = sc.nextLine(); int n = a.length(); int u=0,l=0,o=0;

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

byte c = byte(a.charAt(i));

if(c>=65 && c<=90){ u++;} elseif(c>=97 && c>=122){ l++;} else{ o++;}

}

System.out.println("name has"+ u+ "upper characters" + l + "lower characters" + o+"other characters");}}

ans 19:

import ja a.utl.Scanner; public class RoundOf{ public statc oid main(String2]args){ System.out.println("enter any foatng number");

Scanner sc = new Scanner(System.in); foat n = sc.nextInt(); System.out.println("enter precision"); int p = sc.nextInt();

int in = n\*Math.pow(10, p);

temp = in; int r = temp%10;

if(r>5)

{

in+=1;} else{ in =in;} foat z = in/Math.pow(10,p);

System.out.println(z);

}}

ans 29:

import ja a.utl.Scanner; public class RoundOf{ public statc oid main(String2]args){

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

Scanner sc = new Scanner(System.in); foat num1 = sc.nextInt();

System.out.println("enter another foatng number"); foat num2= sc.nextInt();

System.out.println("enter precision"); int p = sc.nextInt();

int num1 = num1\*p; int num2 = num\*p;

if(num1 == num2){ System.out.println("same");} else{

System.out.println("not same}

}}

ans 30:

public class NumbersFromLeast{ public statc oid main(String2]args){

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

Scanner sc = new Scanner(System.in); int num1 = sc.nextInt();

System.out.println("enter another intng number"); int num2= sc.nextInt();

System.out.println("enter number of terms to be checked from least positon"); int n= sc.nextInt();

int num11 =num1/Math.pow(10, n); int num22 =num1/Math.pow(10, n); if(num1==num2){System.out.println("they are same");} else{System.out.println("numbers are not same ")}}} ans 28:

public class FizzBuzz{

public statc oid main(String2]args){

for(int i=1; i<=100; i++){

if(i%3==0){System.out.println("fzz");}elseif(i%5==0){System.out.println("buzz")}elseif(i%3==0

&& i%5==0){System.out.println("fzzbuzz")}else{System.out.println(i);}}}}

ans 27:

import ja a.utl.Scanner; public class HintGame{ public statc oid main(String2]args){

System.out.println("the game is about choosing the right number according to the hints gi en"); int c=0; for(int i=0; i<10; i++){

System.out.println("choose any number between 1 to 100 according to the hints gi en");

double a = Math.random()\*100;

if(a<50){

System.out.println("hint:lower");} else{System.out.println("hint:higher");

}

Scanner sc = new Scanner(System.in); int n = sc.nextInt(); if(n==a){ c++;

System.out.println("your guess is correct");

}

else{ System.out.println("your guess is not correct");

}}

if(c>=3){

System.out.println("brilliant played");

}

else{System.out.println("well played");

}}}

ans 26:

import ja a.utl.Scanner; public class PinTest{ public statc oid main(String2]args){ int pin = 5730;

Scanner sc = new Scanner(System.in); for(int i=0; i<3; i++){

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

int inpin = sc.nextInt();

if(inpin== pin){

System.out.println("pin is correct");} else{

System.out.println("your pin is incorrect. you ha e "+ (3-(i+1)) +" atempts lee.");

}}}

ans 25:

import ja a.utl.Scanner; public class Negat eBlocker{ public statc oid main(String2]args){ int sum=0;

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

System.out.println("enter "+(i+1)+" posit e number"); Scanner sc = new Scanner(System.in);

int s = sc.nextInt(); if(s>=0){ sum = sum +s;} else{

System.out.println("total number is" + sum);

break;}

}

}}

ans 24:

import ja a.utl.Scanner; public class FibonacciNth{ public statc oid main(String2]args){

System.out.println("enter the term of fbonacci series"); Scanner sc = new Scanner(System.in); int n = sc.nextInt(); int sum =0; int a = 0; int b = 1; for(int i=0; i<n; i++){ c = c +a;

a=b; b=c; if(n==0){

System.out.println(0);

} elseif(n==1){ System.out.println(1);} else{System.out.println(c);} }}

}

ans 23:

import ja a.utl.Scanner; public class Fibonacci{ public statc oid main(String2]args){

System.out.println("enter the term of fbonacci series"); Scanner sc = new Scanner(System.in); int n = sc.nextInt(); int c; int a = 0; int b = 1; for(int i=2; i<n; i++){ c= a+b;

a=b; b=c;

System.out.println(c):

}}

}

ans 21: import ja a.utl.Scanner; import ja a.utl.ArrayList;

public class De nagari{

public statc oid main(String2]args){

char a =(d?d - d1d); int b = a;

Scanner sc= new Scanner(System.in); System.out.println("Enter any number"); long n = sc.nextLong();

String num = ""+n;

String sum =""; int len = num.length();

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

{

int c = num.charAt(i)+b; char da = (char)c;

sum = sum +da;}

System.out.println(sum);

}}

ans 20:

import ja a.utl.Scanner; public class De nagariFor{ public statc oid main(String2]args){

Scanner sc= new Scanner(System.in); System.out.println("Enter any number"); long n = sc.nextLong();

String re =""; String sums= ""+n; int c = sums.length(); for(int i=1; i<=c; i++){ char r = sums.charAt(c-i); re = re +r;

}

int d = re .length(); String nep = ""; for(int i = 1; i<=d;i++){

if(i==4 || i>4&&i%2==0){ nep+= ","+ re .charAt(i-1);

} else{ nep+= re .charAt(i-1)+"";

}

}

StringBufer app = new StringBufer(nep); StringBufer paa = new StringBufer(); paa=app.re erse();

System.out.println(paa);

}

}

ans 22:

import ja a.utl.Scanner; public class EngNepFor{ public statc oid main(String2]args){

Scanner sc= new Scanner(System.in);

System.out.println("choose the format of numbers: type e for english and n for nepali");

String format = sc.nextLine();

boolean tof = format.equalsIgnoreCase("e");

System.out.println("Enter any number"); long n = sc.nextLong();

String re =""; String sums= ""+n; int c = sums.length(); for(int i=1; i<=c; i++){

char r = sums.charAt(c-i);

re = re +r;

}

int d = re .length(); String nep = ""; String lep= ""; if (tof){ for(int i = 0; i<d;i++){

if( i%3==0&& i>0){ nep+= ","+re .charAt(i); } else{ nep+= re .charAt(i)+"";

}

}

}

else{ int e= re .length();

for(int j = 1; j<=e;j++){

if( j==4 || (j>4&&j%2==0)){ lep+= ","+ re .charAt(j-1);

}

else{ lep+= re .charAt(j-1)+"";

}

}

}

String formats;

if(tof){ formats = nep;} else{ formats = lep;

}

StringBufer app = new StringBufer(formats); StringBufer paa = new StringBufer(); paa=app.re erse();

System.out.println(paa);

}

}