Technology & Management, Lucknow



Practical File

Branch :- CSE 2nd Year

Subject :- Object oriented purgramming using JAVA

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Date:-

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Examiner's Signature

Principal

Institution Stamp

PROGRAM="1"

Ques: WAP to show matrix.

Class Af

Public void point_A() {System.out.println ("class A"); }

3

Class B extends A {
Public raid print_B() { System.out. println
("Class B"); }

Class C extends A {

Public roid print - C() { System. out. println

("Class C"); }

Class Dextends A {

Public void print_D() { System.out. puintln

("Class D"); }

// Driver Class
public class test {
 public static roid main (String II asgs)

Bobj B =
$$new B()$$
;

 $obj - B$. $print - A()$;

 $obj - B$. $print - B()$;

 $obj - C$. $print - A()$;

 $obj - C$. $print - C()$;

 $obj - C$. $print - C()$;

 $obj - D$ = $new D()$;

 $obj - D$. $print - A()$;

 $obj - D$. $print - D()$;

1

* Output:

Class A

Class B

Class A

Class C

Clous A

Class O

PROGRAM="2"

Ques: WAP FOU Factorial of a number.

alous Factorial (int n)

E

1/ Single line to find factorial setwen $(n==\pm 1|n==0)$ $7\pm:n^*$ Factorial (n-1);

3

11 Driver Code Public Static Code main (String args[])

{

Factorial obj = new Factorial ();

int num = 6;

System. out. print ln ("Factorial of" + num+

"is" + obj. Factorial (num));

3 %

* Output:

Factorial of 6 is 720

```
PROGRAM = "3"
```

Ques: WAP to handle the exception using try and multiple Catch block.

impout java. util . scanner;

Public Class exce

public Static void main (Strings augs[])

Scarmer Son = new Scanner (System.in);

Luy

int n = Integer. poulselnt (son. next line ());

if (98% n ==0)

System. out. print In (n+ "is a factor of 98");

Catch (Number Format Exception | Printhmetic Exception ex)

System. out. println ("Exception encountered" + ex);

?

}

9

* Qutfaut:

Exception encountered java. lang. Arithmetic Exception:

A STATE OF THE PARTY OF THE PAR

```
PROGRAM="4"
```

```
Clues: WAP to show string reverse.
impout java. lang.*;
 impart java. io. *;
 impout fava. wil. *;
 11 Challed of Revenue String
  Class Revense String of
           Public Static roid main (String [] args)
                 String input = "Puneet";
                1/ get Bytes () method to convert string
                11 into bytes [].
                byte [] Sty As Byte Array = input. get Bytes ();
               byte [] rebut = new byte [stor As Byte Away.lingth];
                 11 Store redult in reverse order into the
                 11 subult byte []
               FOH (int i=0; i < Stre As Byte Averay. length; i++)
                      Hebult [i] - Sty As Byte Array
                                  [Str As Byte Avuay . length-i-1]
              System. Out. print In (new string (result));
```

* Qutput:teense P

```
PROGRAM="5"
```

Ques: WAP to show matrix. import java. io. *; import java. util. *; Clabs matrix (

public Static void main (int mat [][])

1/ Look through all rows For (int[] row: mot)

1/ Converting each show as string
1/ and then printing in a Sepurcite
Line
System. out. println (Array. to String (now));

3

Public Static roid main (String augs[])
throws 10 Exception

{

int mat [][] = { { 6,7,9,4}, {5,6,5,8}, {9,15,11,19}};

3

* Output:-[6,7,9,4] [5,6,5,8] [9,15,11,19]

PROGRAM = "6"

Ques: WAP to show Even and Odd.

import java.util.*;

// Main class

// Jest Even Odd by checking LSB

Public class Giffi ?

1/Method 1
11 To test number is even or odd
Public Static String test odd Even By Checking LSB
(int a)

if (a!=0){

if (integer. to binary String (a). ends With ("o")

Jetwin "Even";

else {

rutwin "odd";

& }

If Here we will land if
It does not ends with 0
else {

setwer " Lero";

```
11 Method &
      1/ Main duiver method
       Public Static void main (String [] cugs)
              11 Iterations over using for Loop
              For lint i=0; i <= 10; i++){
                 1/ Calling the function and printing
                 11 Coversponding number is even or odd
                 System. out. println (
                     it ":" + test Odd Even by Checking LSB(i));
    Output
*
       ZUO
       odd
       even
       odd
       even
       odd
       even
       odd
       even
       odd
   70:
       even
```

```
PROGRAM="7"
```

Ques: - WAP to delign a class rubing abbitract methods and Chalises.

abbitract Chalis Motor bike (

abbtract vaid brake ();

Class Sports bike extends Motor bike (

Mimplementation of abbract method public void brake U.S.

System. out. println ("Sportsbike Brake");

3

3

Class Mountain Bike extends Motor bike &

11 implementation of abstract Method

public void broke () {

Eystem. out. println ("Mountain Bike Brake");

3

3

Class Main C

Public Static void main [String [] augs] {
Mountain Bike mt = new Mountain Bike ();
ml. brake ();

```
Skorts Bike St = new Skorts Bike ();

sl broke ();

* Author:

Mauntain Bike Brake
Sports Bike Brake.
```