## OOPS LAB

FILE

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## Experiment - 283

Basic Java Programming

1) Write a program its find the cangest of Code:

public class Number

public static void main (String [] augs)

int a = Integen.ponseInt (ango [0]); int b = Integen pause Int (augs [1]);

int c = Integer parse Int (angs [2]);

if cash 88/asc) System-out println (a);

else if (bic 88 bia) System out println (b);

else if (c>a && c>b)

System.out-printing (c);

output:

jauac Number, java java Number 10 20 30

30

2) White a purpour to add two numbers using command line arguinents. code: public class Add public static void main (String [] augs) inta = Integer. pouse Int (augs [0]); int b= Integer-parseInt (angs (1)); int sum- atb; System. out. printer (sum); Շ. : Lug EUO Java Add 30 20 50 (3) write a program to and print Fibonacci series. code: public class Fibonacci static void main (string [] angs) (12), 0 =d, 0=p tai int no Integer pauseInt (ang s[0]); System out printer ("Fibonacci Sevies:"); fax (int i=1; i<-n; i++) asb; c:atti system out printen (at" "); z. z. <sup>3</sup>.

```
Fibonacci 7
      Fibonacci Socies: 011 23
D write program
                     to print Fiboracci implement a command
  line
        colculatory.
  Code:
    public class calci
        bublic static void main (string [] augs)
       int a = Integer -paruInt (angs[0]);
       int b: Integer-pause Int (augs (2));
       if langs [1]. equals ("+"))
       E
      idta sums thi
      system.out. printen (sum);
      elve if langs [1].equals("-"))
      int dift = 9-b;
       System.out. printly (diff);
      else if ( axq's [1] equals (" +"))
       $ int Drod = a * b;
         System.out. println (brod);
       else it ( augs [1]. equals ("/"))
        int divically
         System - out-printer (div);
  Output:
           java colci 2+3
```

output:

(5) woulte a purguean using classes and objects in java. dass Name System.out. pointen ("My name is"+S) class Main public static void main (string () augs) Name obj = new Name (); Obj. pointname ("ABC"); Output: javoa Main My name is ABC. 6 white a program to accept to students marks in away, and print gradu and average it and convert to grades and print gradu and marks in tabular form. (40-50: Pars; 51-75: Herit; above-distinction) impost java util scanner public class Marks public Static void main (String augs [7]) int () mouts = new int/(10); scanner sc . New Scanner (System.in); four cirt i=0; is/o; i++) mouth [i] = sc. nextInt (); if ( marty [i] > 40 \$ marty (i) <=50). system-out-printen (marks Ci] +": Paus"); else if (marpy (i) 750 & marks (i) <=75); system out printen (mans (i)+" runit"); du if (mashs (i) 775) system out poundin (marchs (i)+" distinction");

45 Pars.

Output: 45

6) write a program to accept three digits (0-9) and point all its possible combinations. imposet java util scanner; public class combination public static void main (String [] auge) System out-pointed ("Enter How nos"); Scanner SC = New Scanner Csystemin int [7 aw = new int [3]; four (int i=0; i23; i++) · and (i)= sc. next time Int (); four (int k=0; kc3; k+1) if (i!= j \$\$ j!= k \$\$ k!= i) Soplin (avu [i] +" " + asin [j] +" " + asin [k]); 3.3 3 3 3. Output: 1 2 3 123 132 213 231 (8) WAP to accept to nos in a away and compute the square of each no. Print sum of there. java. utidisanney; imposit public dans square { public static void main (storing [] evigs) int [] and = rum int [10]; scanner sc = Nw scanner (system (in); four cirt i=0; iclo; i++) . over [i] = sc. regt Int (); system out printing ground of square: ") int sum=0; for (int i= of; iclo; it+) Sum sum + our Ci] \* avi Ci]; "(muz) rinder (sum); 3.

(9) W.A.P to inbut a see him is	
imposet java entil samme; public class continuous.	
Public chair	
Public clay Month	
bublic static usion mail consist	
public static void main (storing [] angs)	
int oc;	
Scannes SC = new scanner (system.in);	
X=SC. next Int();	
Storing (] month = new String[] & "Jan", "Feb",	
"March", "April", " may ", "Jure", "July",	
"Mayor", "April", " may ", "June", "July", "August", "Sept," "Oct", " Nov", "Dec"3	
System. out println (x+"=" + morrible (x-17);	
3.	
3.	
Output: Extens 12 = December.	
(10) WAP to find the sum of all integers greates than 40 and	
WN than 250 mad and advisional by s.	
public claw pivisible	
S	
& psum (string augus (2))	
<i>\\</i>	
for Cint 1=41; 1(250; i++)	
for Cint (=191; (2250) (1)	
if (x1.5==0)	
sum = sum + ij	
7.	
system. out. princen ("sum" + sum);	
<b>3</b>	
3.	
output: 5985	

class Bil scann 1) write a program to show that private number of a super. floc class connoct be accorded from devived class. Stai 10. class Parent & purivate void funico System. out paintln ("Hello"); 3. class Child extends Parent { void fun 20) 3 system but printen ("Hello MSr. ABC"); 3 public class Test & public static void moun (String [] ange) child obj = nw child (); obj. funl ();

Output: Everous

z.

Devoite a program in Java to cheate a player class Inherit the claves cricket Player, Football-Player and Hockey Player from Player class.

he Ish works. 3 write a class worker and durive ..... class worker String name; Birt saluate; dan bailyworker extends worker void compay (in hown) Ş System.outprinten ("salony"+ saluate \* hours); class Salaviedworken extends wonken int hower = 40; Void compayes System out printen ("salary =" + has \* salvate); Output: washer Salary = 2205 (4) Consider the trunk calls of a ..... calculate the charges. impout java util scanner; class call int duration; string type; float late ; if (type = = "wyent") return 4.5 f che if (Mpe== " lightning") return 3:55 vetwer 3f;

```
class Bill extends call
    scanney sc= new scannor (systemin);
    float amount;
    Storing type;
     1) bout biov
           storing s;
           System - out, printer ("Enter the type of call");
           type = sc. rexterire (1;
           System out printer ("Enter call type");
              S=Sc. rextiline ();
           3.
          void calculate ()
               if (dw <= 1.5)
                     amount= wate () * dur + 1.5f;
               elu if (due (=3)
                     amount= vate () * dux + 2.5f;
               else if (aux <= 5)
                     amount = vate () * dun + 4.5f;
                 Uze
                    amount = yete () * duy + 5 f;
           clars
                         biov
                               main ( (String C) args
                 Bill b = new
                                BiOD (7)
                   is bess. q
                   b. calculate ();
       ž.
```

Bootpubs:

Derign a claus employee... specific penuntage. clare Employee String name; int empid; float sal; 3. Employer (String n, int e, floats) hameen; empid = e; return float getsalary () { return sal; void increase salary (int or) sal = sal + sal \* 21 /100; class Manager extends Employee String depart; 3.

```
ouate interpace ramed Tost...
1) write a program to
   object of anithmetic
                        dan.
  integal Tert
   { int square ();
   3.
   class Asithmetic implements Test
         int n;
         (us tri) sitemative
          E wex;
           int square ()
  Clars Toters
       Asithmetic objenew Asithmetical);
   return obj-square ();
  public class Main
       Public Static void prain 4
              TOTOXX : new To Text (5);
               system. out printen ("square of s is" + obj. square(s);
            output: square of 5 is 25.
Duvite a purguam to overte interface A, in this interespectace A....
   .. another class ramed My class.
   Interpale A
       word mathici;
       void math21);
```

" I glass implements A void mathics E system out puinten ("Method 1");3. void math2 () E systemicut printen ("Method 2");3. public clay Main Mydan obj: new Mydan cs; Obj. math (1) Obj. matha es; (9) write a program to wate an entergace having... which overvides their methods. interpace o il void division w; Void modules (); 3. class A implements il usid division U System.out. println ("Division"); 3. void modules () E system out printly ("Modulus"); }. public class Main A obj = nw AU;/ obj: division/c); obj: montain ();