```
Output:
```

Call by value in main() before: 10 in main() before: 20 in lun: 20 in jun: 10 in manc) after: 20 in main() after: 10.

Date : 31 7 25

Page No.: 15 Title: WEEK -4 71 write a java program to illustrate parameter passing techniques. // value passing. class ValuePass Eint a, b; void Swap (int x, int y) e int t; t= 1; 2-4; System. out. println ("infun: "+x); System-out. printh ("in un:"+y); class ValuePass M 1 public static void main (String augs[]) l int a=10, b=20; ValuePars Vp=new ValuePars (); System. out pointly ("Call by Value"); System.out. pointln ("in main() before: "+a); System. out. points ("in maines before:"+b); Vp. Swap(a,b); System. Out. println ("in main!) after: "ta); System. out - println ("in maine) after: "+b);

```
Sutput:-

Call by Reference
in main () before: 10
in main () before: 20
in fun 1: 20
in fun 1: 10
in main () after: 20
in main () after: 10
```

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Date :
                                                   Page No. : 16
     Title:
     Mequence Passing.
    class ValenRef
     int a, b;
    ValueRef (int i, int j)
     d_{a=i}
      b=j;
     vaid Swap ( value Ref V)
    l intt;
      t= V·a;
      V.a=V.b;
      V-b=t;
     System-out -println ("infun! : "+v.a);
     System out printer ("infun 2:"+V.b);
lan ValueRefM
public static void main (String augs[])
 int a=10, b=20;
 Value Ref vr=new Value Ref(a,b);
 System out println (" call by Reference ");
 System out println("in main() before: "+a);
 System. out princh (" in main () before :"+b);
 Vr-Supp(vr);
 System. out println ("in main () ofter: + vra);
 System.out println ('in main () after: "+ \vr.b);
```

output:enter num:5
120

```
Date:
                                               Page No.: 17
3 write a program to illustrate fecursion and nested class
  11 Recursion.
 import java.util.x;
 class Factorial
  int fact (int n)
      int ri
     if (n==111 n==0)
      return 1;
      return nx fact (n-1);
  class factorialM
   E public static void moun (String aggs [])
        factorial forms factorial ();
        Scanner Sc=new Scanner (System.in);
        System out printly ("enter num");
         int n = Sc. nextInt ();
         System · out · printer ( f. fast(n));
```

```
Output:-
Hello
```

: C. Itwan

(0 10)4

Dead Head

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```
Page No.: 18
  Title :
// Nested class
class Hello
 { void display ()
   System.out.print("HUO");
  clan Hi
     void show()
       2 System-Out println ("Hi");
Clay HelloHiM
2 public static void main (String ages (7)
     Hello h= new HelloU;
     h. display();
     Hello Hi i=h new Hi();
     i. Show ();
```

Date :