```
rale :-
         Weife a program to read from ad wife
up No: - to files using Byte Steam
(1) a)
most jana. io. *
milic Jass Byte Steam &
public static void main (String[] args) throus the xention
  File Input Stream source Stream = rull;
  File Output Steam target Steam = null;
  try &
        soureStream = new File Input Stream ("surrefile tet");
target stream - new File Dutret Stream ("target file text");
         int temp;
         uehile ((temp = source Steam. read (7) 1 = -1)
                target Stream. weite (1 byte) temp);
     finally
       if (source Stran ! = null)
                 source Strem. close();
         if (target Stream! = null)
                   target Stran. close ();
      3
```

Output!-boututs of the file are copied. Dale

Oulpul: Shows coulnts of file test two Dale: neither Fiavant (cops [3 print?) view but do import jo - stream rough stream = rull; public File musteren = new File Input Stream ("sometile. to")) Eile + (1--1 (c) beer mark erwa = post) like torget Stream. with ((byte) temp); (Mun - ! novte ware ! (maly ment's wwo. day of the clare

```
Page No. 24
 Their of wheite a java progress that displays the rule
        of charactes, lines and wonds in a test file.
                              ye . I dif it cail to which
 yat java. io Buffurdreadi;
not java io File Reader;
mot javailo IO Exemption;
Jass Count File &
 jublic static void main (StringE) args) throws IO Exeption
   Bufford Readu by = null;
   File Readu fr = muli)
   int CharCourt = 0;
   int Ward Court = 0;
   int Line count = 0;
        fr = new File Reader ("file 1. txt");
        by = new Ruffred Reader (fx);
        String currettine = br. readline 1);
       while (currelline != null)
         Line Court ++;
         String[] words = currutline. split (" ");
         Ward Count = ward count + words. length;
          for (String word: words)
            charlount = charcount + word · lngth ();
          Curutline = by. readline())
```

Output! -Number of characters in file 1: 841 Number of words in file 1: 143 Number of lines in file 1: 14 sidger 15" 6" with void main (starge 3 angs) trace I offerflier Mun = vd where iller . x g whole O = two with o true bell o tound in ("tot-lalif") record it late tot"); i (+ f) rebord buffed our of (1 evillas - rd = evilence p (Dur = 1 evillarus) 2001 1. + trusien (" ") tilga exiltures des [] pre intered about the was bow town both (down ward: wards) () should - brown & heartest = turbert

System. out printle !" Number of Charachs in file! : " + Charlount); system out printh ("Number of words in file 1:" + Wordsond);

system out printh ("Number of Lines in file 1:" + Line Court); system out printh (" File not found");

White a program to thus An Charachues of a file after getting the filename from the user. most jana.10. File; less file Proputy & public static void main (String () augs) & String frame = args[0]; File of = new File (frame); System out printh ("File name:"+ f. get Name ()); System out puth ("Path: "+ f. get Path ()); System out puth ("Absorber Path: "+ f. get Absolute Path ())) System out . futh ("Parent:"+ f. get Parent ()); Systemout put ("Enists: "+ f. enists()); if (f. crists()) 5: Systemas puti(" Is Writable: "+ f. can Write()); Systemout printy ("Is Readable" + of. car Read()); Systemout printer ("Is a Directory:"+ fixDirectory ()); System out . printh ("File size in byts:" + f. lugh());

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Output! -File name: file tet Path: file.tut Absolute Patri: C: \usus \ yash\cve\ src\ file to Paris i will " I dif a cons jo al will I wany o Is Writable: true Is readally: their made to did " string to Is a directory! balsi Full size in byto: 20

```
Page No. -27
       0) Develop a Java Application demonstrating
       scrialization and de-suralization.
pot java. io. .
lass Demo implements java. io. Serializable &
   public int a;
   public String b;
   public Demo (int a, String b) &
          this · a = a;
          this . b = 6;
lass Test &
 public static void main (String IJ args) &
   Demo & object = new Demo (1, " Yash");
    String filenance = "file.su";
          File Output Steam file = new File Output Steam (filma);
          Object Owhet Stron Out = new Object Output Strong file);
          out. write Object (object);
           out · close();
           file close ();
          System. out- printh ("Object has been Serialized");
      catch (ID Exception ex) {
          System out puth (" IO Emption is caught");
      Demo object! - rull;
```

```
File Input Steam file = new File Input Steam (filemass);
    Object Input Steam in = new Object Input Steam (file);
    Object 1 - (Deno) in read Object ();
    in-close(1)
    file-close ();
    Systmout. puch ("Object has been desuidized")
   System. oud. puth (" a = " + object 1: a);
System. out. puth (" b = " + object 1. b);
catch (IO Exepution en) $
   System. Out. printh (" IO Exception to caught");
Catch ( Class Not Found Emphio en) 2
  System out put (" class Not Fond Emphio is carght");
```

Output: Object has been smalized Object has been described b - Yash 3 elde gilous - cironoj steenelper 3 (de a, stings) & (d : d = 14) 3 (come E3 privas) risem bion item. (" Mast " 1) ams () cuen tojde so 1 "va. dif" - marely o " " Wityer Stream file = New File Outgul Stream (filma); Sid July Sum Out - new Object but Steen (file); id wide Object (object); (1) was 40 " (" le just (" Object has been Serialized"); 3 (44 otypes 30 h others or strang come

Page No. O) Write a program to demonstrate adapte Clasises part java. aust . x; jours and event is; ublic class Adaphir Example & France ti Adaphi Example 1) & f = new frank ("window Adaphi"); f. add Window Listener (new Window Adlepter 1) & queblic void window Closing (Window Event e) & of dispose (); f. set size (400, 400); fi sot layout (mull); f-set Visible (tem); tublic static Void man. (Stry [] args) & new Adaph Enarph(); CVR COLLEGE OF ENGINEERING Vastunagar, Mangalpalli (V) Ibrahimpatan (M), R.R. Dist. Ph - 501 510

Output: (seem file = reso tile Topis Seem (filemans) and put 1° Chiper was been deamalisted "); (0:12) dist ("0: " + djet (:0)) " DE repution en) & (" I) Everytion to cought "). " assilor Found Freighte en) 3 (class Not Found Emphis is eagle))

```
0) Write a program to demonstrate inner
      classes.
lass Outer &
  dass inner &
         qualic void show()
          System. out-putu (" In a rested class helhod");
   4
  public static void main (Strugt) args)
us Main &
    Outri Inner in = new Owln(). new Inner();
     in show (1)
```

Duful: In a risted class returned. 3 styrand while " (" whole wohin") and for 3 (1 solyalthadorill cent) moderil aubill ble ! quidle void window Chaing (Window Event c) & of dispose (1) (ad Eggs (200) (rould); Ju E (rest) ddie / tois itse void no. (Strate I aug) & rewident Franklij

```
0) Develop an application to demonstale applit
      life cycle
capilit code = "Life eyele. Class" width = 300 hught = 250>
 4 applet >
port java, aut. «
Die class diferile ent do Applet &
   String Output = "
   public void init()
      this. set Background (color. jullow);
      this set Foregrond (Glor red);
      Outputo = output "init",
    public void start ()
      Output = Output + "Start";
     public Void Stope )
       Output = Output + " Stop";
    public Void distroy ()
      Output = Output + " distroy";
      System. Out - putal" Applit Destroying "/;
```

Page No. 32 public void paint (braphies g)

E Fort of = new fort ("Times New Roman", Fout. BOLD,

286);

g. Set Fort(b)

g. draw String (output, 100, 100); 4

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o) possilop en application do demon of were "life up lass" 008 = N7 bus cose typus Charles and 2. Elype on 2 shipping out to the the a - tuyled pull 1) Part Liou Sides ((wally roled) be out ted to an. this set Foregoing Colon red); " + Lat + Euglio = object (120012 biol sildy " tros " + turber) = turber) () got & kind stage " 10+2" + tuper - 2-16" () got ack sou stay "partials" + Eughor - ter : (" Figures of Belly ") spirit sounds