```
MIDTERM
ESHAN UNIVAL
1. A. Animal is the superclass; Kangaros and Durny one subdances of Animal
2. D. One big superclars can be used instead of many little dances
3. B. False
41 A: True (by convention), but not syntactically necessary)
           (though it's had practice to arrune such)
 6. A True
7. 0 n=y = - (int) 1.0;
 8. lines with errors: 1,4,7,8,13,16,20,21
   Cornected code:
           import java. util. Scarre
                                       // import , not include
           public & class Text {
                     static void main (String [] angs) // "static" good practice.
              public
                  int nyear;
                  int years = 0; // dype specifier missing
                  System out printh ("Please enter the current year: ");
                  Scanner cin = new Scanner (System.in);
         118
                 my nyear = cin. neut Int (1;
          3
                 While ( nyear != millenium)
           14
           15
                     nyear ++;
           W
                                  11 semicola missey
                    years ++;
            17
            18
                  System. out. println ( " Another " +
            19
                        expears + " years to the millerium."); // print year, not myrea
           0
                   11 no return statement needed; return 0 gines
            (2)
             22 3
             23
```

PIC 20A

L4 3

```
import java. unt. Random;
public class Test &
    public state void main (String [] args) }
         long seed = System. current Time Millis ();
         Radam generator = new Random (seed);
          in total Rolls = 0;
         final int ntrials = 10000;
             (int i=0; i!=ntrials; i++) }
               int neolls = 0;
               while (me) &
                   int roll = generator. neutro (6) +1;
                   in roll 2 = generator . neutrint (6) + 1;
                   n Rolls + + ;
                   id (roll + roll 2 == 7)
                       break;
               total Rolls += nRolls;
         double arouge Rolls = ((double) total Rolls) / n Trials };
         System.out. printle (average Rolls);
```

```
import gara. util. Scanner;
      class Text {
public
    public static void mate (String () ago) }
                cin = new Scarre (System.in);
         float n;
         while (true) {
             System. out. proten ("Please enter a position floating point number: ");
             n = cin. nent Float (1;
             (c (x) B
                break;
          double f=n = (Math. pow (n.n) - Math. sgort (Math. cos (n) + (d + x)/3)) /
                                ( math. pow ( n. 2 ) +1 ) ;
          System. out. printly ( of- n);
      3
  3
```