Pencil 2 Solutions.

1. String socialSecurityStatus=age>65? "eligible" :"ineligible"
2. **A.   f**
    B.   15
    C.   friendl
         iendly face
3. **public class Circle{**
    public static void main(String[] args){
    double r=6;
    double A=Math.PI*r*r;
    }
    }
    public class Rectangle{
    public static void main(String [] args){
    double length=8;
    double width=7;
    double diag=Math.sqrt(length*length+width*width);
    }
    }
4. **a.** 3 * 5 / 9 % 2=
    3*5=15
    15**/9=**1
    1**%2=1; Ans=1 of type int**
    b. 4 ^ 3 & 5
        3&5=1
         4^1=5 Ans=5
    c. 13 >> 2 << 2 ^ 4
      13>>2=3
       3**<<2=**12
        12**^4=8 Ans=8**
    d. 32 | 16/3 >> 2 & 5
        16/3=5
        5**>>2=**1
        1**&5=**1
        32|1=33 Ans=33
5. **The statement** int a = (b = 5); wouldn't compile because we have to declare variable b
    first. If variable b was declared initially a would take the value of 5, but in this case b is
    not declared hence it will not compile.