CSE 140 Section 1 Problems

1. Write the output to following program:

   ```
   a = 39
   b = a
   print a + b
   a = 42
   print a + a
   ```

2. For each expression, write the resultant value and the data type of
   the value (for instance, Integer)

   a. 42
   b. 42 + 91 / 3.0
   c. 42 / 5 + 2.0
   d. True
   e. 42 < 45
   f. not 42 < 91
   g. "Mike makes hilarious jokes during lecture"
   h. float(3) < 9

3. Write the output to the following program:

   ```
   for value in [1, 3, 5]:
       print value ** 2
   ```

4. Write a for loop that will print the result of multiplying 3 by the
   numbers 8 through 12. The example solution is two lines long. Your
   output should read:

   ```
   24
   27
   30
   33
   36
   ```

5. Write the output to the following program:

   ```
   for i in [1, 2, 3]:
       for j in [1, 2, 3]:
           print i + j
   ```

6. Write the output to the following program:

   ```
   sum = 0
   for i in [1, 2, 3]:
       for j in [1, 2, 3]:
           sum = sum + i

   print sum
   ```

```
    CSE 140 Section 1 Solutions

1.  The output appears below:

        78
        84

2.  Solutions appear below:

        a. 42. integer
        b. 73.333 float
        c. 10.0 float
        d. True bool (or truth value)
        e. True bool (or truth value)
        f. False bool (or truth value)
        g. "Mike makes hilarious jokes during lecture" string
        h. True bool (or truth value)

3.  The output appears below:

        1
        9
        25

4.  One possible solution appears below:

        for value in [8, 9, 10, 11, 12]:
            print 3 * value

5.  The output appears below:

        2
        3
        4
        3
        4
        5
        4
        5
        6

6.  The output appears below:

        18
```