## Model 1 High-Level Languages

In addition to adding the numbers from 1 to 10, this program prints (displays) the result on the screen using Standard I/O.

```
Standard C
                                   Python
(3rd Generation)
                                   (4th Generation)
#include <stdio.h>
int main()
    int upper = 11;
                                   upper = 11
    int sum = 1;
                                   isum = 1
    int val = 2;
                                   val = 2
    while (val < upper)</pre>
                                   while val < upper:
    {
        sum = sum + val;
                                       isum = isum + val
        val++;
                                       val = val + 1
    }
    printf("Sum = %d\n", sum);
                                   print("Sum = " + str(isum))
}
```

## Questions (10 min)

Start time: \_\_\_\_\_

- 1. Compare the C code with the Python code.
  - a) Circle the lines of C code that were not present in ??.
  - b) Which lines of C are not present (i.e., needed) in Python?
  - c) What punctuation used in C is not required in Python?
- 2. Without using braces, how does Python know which lines are part of the while loop?
- 3. Why does Python use the name isum instead of sum? Hint: type sum into a Python shell.

