AP COMPUTER SCIENCE A – FOR LOOPS

**1)** Type in the class ForLoop (pretty much exactly as shown).

public class ForLoop {

/\*\*/

public static void main ( String [] arg ) {

/\*

\* loop #1

\*/

System.out.println("for ( int i=0; i<10; ++i )");

for ( int i=0; i<10; ++i ) {

System.out.print("i = "); System.out.println(i);

}

/\*

\* loop #2

\*/

System.out.println(" ");

System.out.println("for ( int i=9; i>=0; --i )");

for ( int i=9; i>=0; --i ) {

System.out.print("i = "); System.out.println(i);

}

/\*

\* loop #3

\*/

System.out.println(" ");

System.out.println("for ( int i=0; i<50; i+=5 )");

for ( int i=0; i<50; i+=5 ) {

System.out.print("i = "); System.out.println(i);

}

/\*

\* loop #4

\*/

System.out.println(" ");

System.out.println("for ( int i=1; i<126; i\*=5 )");

for ( int i=1; i<126; i\*=5 ) {

System.out.print("i = "); System.out.println(i);

}

/\*\*/

return;

}

/\*\*/

public ForLoop () {

}

}

**2)** Compile and run the program. Use java ForLoop >> ForLoop.txt to run the program.

This puts the output into the file ForLoop.txt.

**3)** Open ForLoop.txt with notepad and answer the following questions.

**a)** Explain what loop #1 does and why.

**b)** Explain what loop #2 does and why.

**c)** Explain what loop #3 does and why.

**d)** Explain what loop #4 does and why.