**Instructions: Dry-run all the question below. You must create a trace table for Q2 & Q4.**

**Q1**

Dim y as integer = 3

For x = 1 to 4

y = y + x

Loop

Console.WriteLine(y)

|  |  |  |
| --- | --- | --- |
| **x** | **y** | **output** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**[Grade: E]**

**Q2**

Dim nums() = {6,2,8,1,9,2}

Dim n as integer = 0

for i = 0 to 5

if nums(i) > n

n = nums(i)

end if

loop

**[Grade: D]**

**Q3** – no trace table required, figure out what the program does.

Dim input as integer = 78

Dim r as integer

console.write("Input a number:")

input = console.readline()

Do

console.write(input MOD 2)

input = input DIV 2

Loop Until

**[Grade: C]**

**Q4 –** dry run the code and create the trace table for it. Then, identify what went wrong in the trace table and adjust it.

Dim num() as integer = {10,8,3,5,6,1,2}

Dim sum as integer = 0

Dim avg as integer

For x = 0 to 5

sum = sum + num(x)

Loop

avg = sum / (x + 1)

Console.writeline("average =" & avg)

**[Grade: B]**