## 22C:16 (CS:1210) Quiz 3

You have 20 minutes to complete this quiz.

1. Suppose that variable x has value 18 and variable y has value 13 . Evaluate each of the following boolean expressions.
(a) $(x \quad!=y)$ and $(x<y)$
(b) $((x<15)$ and $(15>y))$
(c) $\operatorname{not}(\operatorname{not}((x \% y)!=4))$
(d) $((x \quad!=18)$ or $(y!=13))$
(e) $(x==10)$ or $((x<10)$ or $(\operatorname{not}(x>20)))$
2. Write down the output produced by the following program:
```
n = 2
while n <= 6:
        m = 1
        while m <= 10:
            print m * n
            m = m + n
        print "---"
        n = n + 2
```

3. Rewrite the following program so that it does exactly the same thing, but does not use a break. The program you write should contain a while-loop, have the same variables, have roughly the same length, etc., but it should not have a break statement. It should be similar to the one you see below, although you may need to recast things a bit and move some things around.
```
sum = 0
while True:
    n = int(raw_input("Enter a positive integer: "))
    if (n < 0) or (n > 100):
        print "The sum is:", sum
        break
    sum = sum + n
```

