The goal of this assignment is to write an assembler program that reflects a compiler’s output from several control structures. This will be done by writing an assembler program that finds primes. Your program should print the primes from 2 to 100. Convert the following pseudocode into proper x86 assembly.

```assembly
procedure main
    local int i
    for i = 2 to 100
        if is_prime(i)
            print i
        end if
    end for
end main

boolean function is_prime (int n)
    local boolean prime
    local int k
    prime = TRUE
    k = 2
    while prime and k <= n/2
        if n mod k == 0 then
            prime = FALSE
        else
            k = k + 1
        end if
    end while
    return prime
end is_prime
```

What to hand in

1. A well-formatted 2-up printout of your code.
2. Upload your code and a png of a print screen showing its output.

Notes

1. The first two lines of your code must be "; This is my code" followed by your name.
2. Note the control structures for, while, and if-then and if-then-else. Better answers will not cheat them.