

## CD Lab Assignment 10

Name : Nalanaga Ysaswin

Roll no : 20CS01040

I have taken input from input.txt file and written to a output.txt file

Sample input :

global

x := 1;

y := x + 5;

print x;

read y;

if p <> q and a = 5:

print c;

if a < b:

b := a + b;

while m < n:

n:= a \* 4

end;

v := 7 \* 8

else

read f

end;

print q

else

print a;

print b

end;

a := 5;

```

while x > y:
    r := x + 1;
    while a > b:
        q := y + 1;
        while d >= c:
            c:= v + g;
            if 6 < 5:
                b := a * c
            end
        end
    end
end
end

end

```

the output :

```

x = 1
t0 = x + 5
y = t0
print x
t1 = Read y
t2 = p != q
t3 = a == 5
t4 = t2 and t3
t5 = t4
If ! (t5) goto L0
print c
t6 = a < b
t7 = t6
If ! (t7) goto L1
t8 = a + b
b = t8

```

```
L2 : t9 = m < n
If ! (t9) goto L3
t10 = a * 4
n = t10
goto L2
L3 : t11 = 7 * 8
v = t11
goto L4
L1 : t12 = Read f
L4 : print q
goto L5
L0 : print a
print b
L5 : a = 5
L6 : t13 = x > y
If ! (t13) goto L7
t14 = x + 1
r = t14
L8 : t15 = a > b
If ! (t15) goto L9
t16 = y + 1
q = t16
L10 : t17 = d >= c
If ! (t17) goto L11
t18 = v + g
c = t18
t19 = 6 < 5
t20 = t19
If ! (t20) goto L12
t21 = a * c
b = t21
```

L12 : goto L10

L11 : goto L8

L9 : goto L6

L7 : exit