CS6109 - COMPILER DESIGN – LAB

Week 12 – 22.11.2022

(Spot Questions)

1. Validate and evaluate the given expression using the Boolean expression and flow of control statements rules using backpatching.

   Input 1:

   ```
   if ( a == b || c == d && e==f) x == 1;
   ```

   Input 2:
   ```
   While (a < b || c < d) do
           if (!(e < f)) then
                   x = y + z
   ```

2. Generate the TAC for the given expression.

   Input 1:

   ```
   a + a * (b – c) + ( b – c) * d
   ```

   Input 2:

   ```
   a = b * -c + b * -c
   ```