Assignment 7 – 08 - May - 2023

Write LEX and YACC program to generate Intermediate code Generation for the

following:

1

Input:

```
a = 1;
    b = 1;
    while( a \le 5)
    {
        b = 1;
        while(b \le 5)
            b = b + 1;
            print b;
        a = a + 1;
        print a;
    }
Output:
   1. a = 1
   2. b = 1
   3. if (a \le 5) goto(5)
   4. goto(15)
   5. b=1
   6. if (b \le 5) goto(8)
   7. goto(11)
   8. t1 = b + 1
   9. b = t1
   10. print b
   11. t2 = a + 1
   12. a = t2
   13. print a
```

14. goto(3)

```
2
        <u>Input:</u>
        while(a<c or c>d)
        {
           a=b/c*d+(-c);
           print a;
        }
         Output:
        1. if (a<c) goto(5)
        2. goto(3)
        3. if (c>d) goto(5)
        4. goto(11)
        5. t1=uminus c
        6. t2=b/c
        7. t3=t2*d
        8. a=t3+t1
        9. print a
        10. goto(1)
```