Ma. Corazon C. Macaraig BSCS 3 – 2 2021-10699 DBTK

1. Simulate the expressions using your code (hand written).

```
Program 1:
                                   Problem 2:
b=3, c=2,f=1,i=6
                                   d=7, e=3, f,9
                                   c=2*(9+8-d)/e+f
m = 5 % 6 c - (20/10) + + (20/10) + i
                                   play(c)
play (m)
Simulation:
                                  Simulation:
                                   d = 7
b=3
                                   e=3
C=2
                                   f = 9
f=1
                                   c=2*(9+8-d)/e+f
i=6
                                   C;2*(9+8-7)/3+9
m=5%b*c-(20/20)+f*(20/20)+i
                                   C=2*(12-7)/3+9
M=5163+2-(20/10)+1*(20/10)+6
m=5%3*2-2+1*2+6
                                  C= 2*5/3+9
m = 2 * 2 - 2 + 1 * 2 + 6
                                   c= 10/3+9
                                   C = 3.33 +9
m= 4-2+1 2+6
m= 9-2+2+6
                                   c = 12.33
m= 2+2+6
      4 +6
m= 10
                   Program 3:
                   a=5, b=0, C>10
                   m= a*b+c-(1/9)+7
                   play (m)
                  Simulation:
                  a = 5
                   b=0
                   C=10
                  m=a+b+c-(1/9)+7
                  m=5*0+10-(1/4)+7
                  m=5*0+10-10.25 +7
```

m = 0 + 10 - 0.25 + 7 m = 10 - 0.25 + 7 m = 9.75 + 7 M = 16.75

Run your compiler and display the output to validate your simulation.
 Program 1:

Terminal

Program 2:

10.0

Terminal
12.3333333333334

Program 3:

Terminal
16.75

3. Submit the screenshot of your code.

### Program 1:

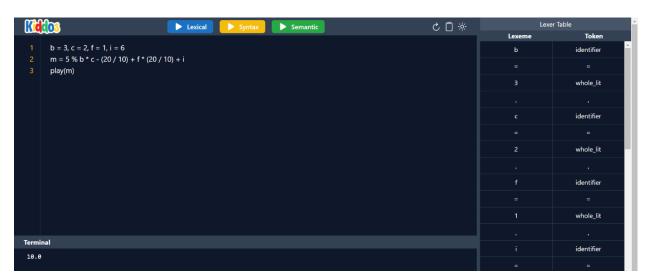
```
| Lexical | Syntax | Semantic | Syntax | Syn
```

### Program 2:

## Program 3:

4. Submit the screenshot of your output after running your compiler.

### Program 1:



# Program 2:

```
Kiddos
                                     간 🗋 ※
                                                                                                                                     Lexer Table
     d = 7, e = 3, f = 9
c = 2 * (4 + 8 - d) / e + f
                                                                                                                                               identifier
     play(c)
                                                                                                                                               whole_lit
                                                                                                                                              identifier
                                                                                                                                               whole_lit
                                                                                                                                              identifier
                                                                                                                                               whole_lit
                                                                                                                                               newline
Terminal
                                                                                                                                               identifier
12.333333333333334
```

# Program 3: