**BRAC University (Department of Computer Science and Engineering)**

**CSE 470 (Software Engineering) | Summer 2023**

**Quiz 5 (Set A)**

**Full Marks: 10 Duration: 20 minutes**

**Name: Student ID: Section:**

1. Draw CFG diagram for the given code segment. **[5 marks]**

2. Calculate Cyclomatic Complexity. **[1 marks]**

3. State Basic Path Sets. **[1 marks]**

4. Generate test cases for each of the paths. (just mention the x and n values) **[3 marks]**

**def checkSign(k):**

**if k > 0:**

**print(“Positive”)**

**elif k == 0:**

**print(“Zero”)**

**else:  
 print(“Negative”)**

**return**

**k = -k**

**print(“Negative Complement”)**

**x=5**

**n=2**

**while x>n:**

**x = x-1**

**checkSign(x)**

**print(“THE END”)**