Examination: Quiz 05   CSE470:Software Engineering Course   **Semester**: Spring 2023
Duration: 25 Minutes   **Full Marks**: 15
No. of Questions: 2   **No. of Page(s)**: 2

Name:	ID:
(Please write in CAPITAL LETTERS)	Sec:

Answer the following questions.

1.   CO4

a.	b.

``python
x = 0
print(x)
if x > 5:
    print('x is big')
else:
    print('x is small'
``
	``python
	x = 0
	while x < 10:
	    if x > 5:
	        print(x)
	    else:
	        print('x less than 6')
	    x += 1
	``

c.	1. Draw CFG diagram for each

``python
def f(x: int) -> None:
    if x > 10:
        return
    else:
        y = x + 1
    print(x * y)
``
	1. Draw CFG diagram for each
	2. Calculate Cyclomatic Complexity For a. & b.
	3. State Basic Path Sets for each
	4. Calculate number of closed Region for each

'

2. Calculate Specialization Index (SIX) for SportsCar Class   **CO4**

```
class Vehicle {
  public void run();

  public void stop();
}

class Car extends Vehicle {

  public void run();

  public void stop();
}

class SportsCar extends Car {

  public void run();

  public void stop();

  public void drift();
}
```