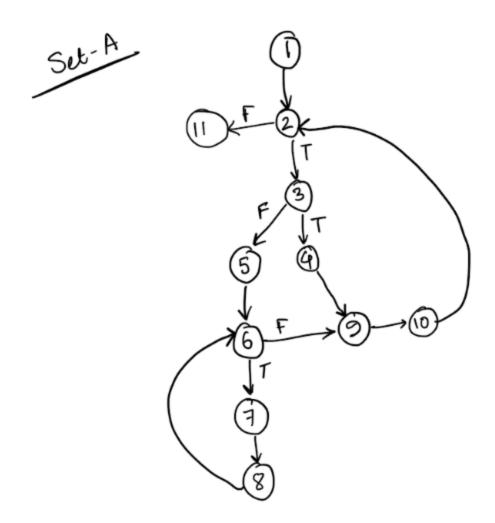
SET A

Line	Code	Node
1	a = 5	1
2	b = 6	1
3	i = 0	1
4	while i < b:	2
5	if a % 2 == 0:	3
6	print(f' {a} is even')	4
7	else:	
8	j = 1	5
9	while j<5:	6
10	print(f' {a} is odd')	7
11	j+=1	8
12	a += 1	9
13	i+=1	10



Cyclomatic Complexity:

R=3, P=3, R+1=P+1=4 E = 12, N=10, P=1, 12-10+2(1)=4

Q2

DIT = 3

NMO= 1 (buttons)

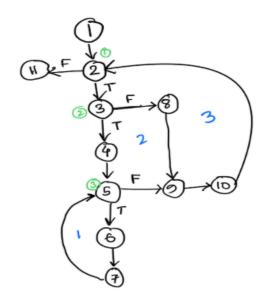
NMA= 1 (pocketCloth)

NMI= 3(fabric, pocket, sleeve)

SIX = (3x1)/1+1+3 = 3/5 *100 = 60%

SET B

Line	Code	Node
1	a = 5	1
2	b = 6	1
3	i = 0	1
4	while i < b:	2
5	if a % 2 == 0:	3
6	j = 1	4
7	while j < 5:	5
8	print(f'{a} is even')	6
9	j+= 1	7
10	else:	
11	print(f'{a} is odd')	8
12	a += 1	9
13	i+=1	10



Here:

$$R = 3 > R + 1/P + 1 = 4$$

$$P = 3 > R + 1/P + 1 = 4$$

$$E = 12$$

$$N = 10$$

$$P = 1 (conn. conp.)$$

$$12 - 10 + 2(1)$$

$$= 2 + 2 = 4$$

$$SIX = \frac{NMO \times DIT}{NMD + NMA + NMI}$$

For Car class:

DIT = 3 (Engine, Transmission, Bodg)

NMO = 1 (transmission method)

NMA = 1

NMI = 2

 $SIX = (1x3)/(1+1+2) = 0.75 \times 100\% = 75\%$