Question 1

Statement Coverage :
1. A = [1,2,3,4] , v = [3],
2. A = [1,2,3,4] , v = [5],

Condition Coverage:
1. A = [1,2,3,4] , v = [4]
2. A = [1,2,3,4] , v = [5]

Branch Coverage:
1. A = [] , v = anything
2. A = [1,2,3,4,5], v = [5]

Question 2

Statement Coverage :
1. A= [1,2,3,3,4,5] , v = [3]

Branch Coverage:
1. A=[1,2,3,3,4,5], v = [6]
2. A=[], v=anything

Condition Coverage:
1. A=[1,2,3,3,4,5], v = [6]

Question3

Statement Coverage :
1. A = [1,2, 3 ,4,5,6,7,8,9,10,12,13,14,15,16] , v = 12
2. A = [1,2, 3 ,4,5,6,7,8,9,10] , v = 11

Branch Coverage:
1. A = [] , v = anything
2. A = [1,2, 3 ,4,5,6,7,8,9,10,12,13,14,15,16] , v = 12

Condition Coverage:
3. A = [1,2, 3 ,4,5,6,7,8,9,10,12,13,14,15,16] , v = 8
4. A = [1,2, 3 ,4,5,6,7,8,9,10,12,13,14,15,16] , v = 1
5. A = [1,2, 3 ,4,5,6,7,8,9,10,12,13,14,15,16] , v = 16

Question4

Statement Coverage :
1. a = 3 , b = 3 , c= 3
2. a = 3 , b = 3, c = 2
3. a=5 , b = 4 , c = 3
4. a = 10, b = 2 , c= 1

Branch Coverage :
5. a = 3 , b = 3 , c= 3
6. a = 3 , b = 3, c = 2
7. a=5 , b = 4 , c = 3
8. a = 10, b = 2 , c= 1

Condition Coverage :
9. a = 3 , b = 3 , c= 3
10. a = 3 , b = 3, c = 2
11. a=5 , b = 4 , c = 3
12. a = 10, b = 2 , c= 1

Question5

Statement Coverage :
1. S1 = "abcd" , s2 = "abc"
2. S1 = "abcd" s2 = "efgh"
3. S1 = "abcd" , S2 = "abcde"

Branch Coverage:
4. S1 = "abcd" , s2 = "abc"
5. S1 = "abcd" s2 = "efgh"
6. S1 = "abcd" , S2 = "abcde"

Statement Coverage:
7. S1 = "abcd" , s2 = "abc"
8. S1 = "abcd" s2 = "efgh"
9. S1 = "abcd" , S2 = "abcde"