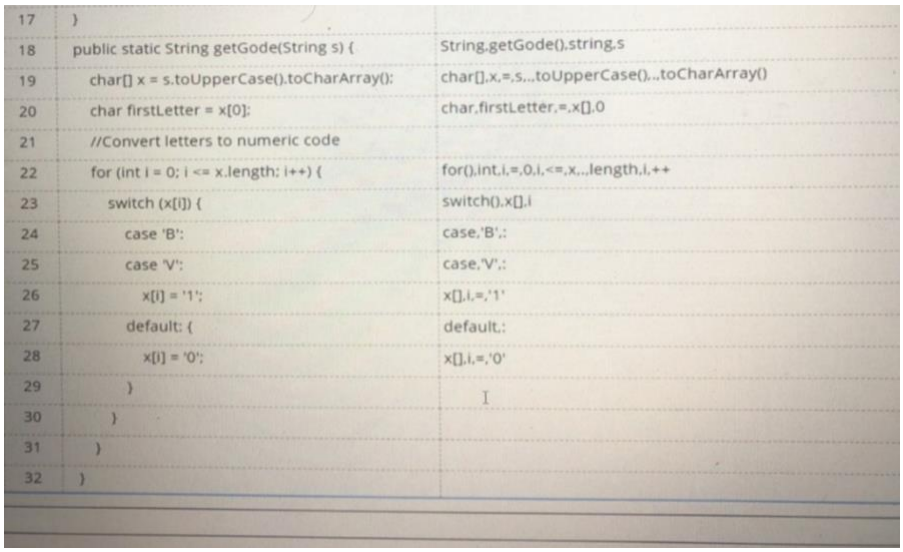
Question 1

i. List the tokens that would be identified under the **Weighted Composite Complexity (WCC)** measure. Use a comma to separate the tokens.

Line No	Program Statements	Tokens
1	public class MyList extends Greeting{	
2	private Node start;	Node, start
3	public void sayGreeting(){	void, sayGreetings()
4	System.out.println("Welcome to SLL");	System, ., out, ., println(), "Welcome to SLL"
5	}	
6	public void add(Integer i) {	void, add(), integer, i
7	Node node = new Node(i);	Node, node, =, new, Node(), i
8	if(start == null)	if(), start, ==, null,
9	start = node;	start,, =, node
10	else {	
11	Node temp = start;	Node, temp,=, start
12	while(temp.next != null){	while(),

2	private Node start;	Node, start
3	public void sayGreeting(){	void, sayGreetings()
4	System.out.println("Welcome to SLL");	System, ., out, ., println(), "Welcome to SLL"
5	}	
6	public void add(Integer i) {	void, add(), integer, i
7	Node node = new Node(i);	Node, node, =, new, Node(), i
8	if(start == null)	if(), start, ==, null,
9	start = node;	start,, =, node
10	else {	
11	Node temp = start;	Node, temp,=, start
12	while(temp.next != null){	while(), temp, ., next, !=, null
13	temp = temp.next;	temp, =, temp, next
14	}	
15	temp.next = node;	temp, ., next, =, node
16	}	
17	}	
18	public static String getGode(String s) {	String, getGode(), String, s
19	char[] x = s.toUpperCase().toCharArray();	
20	char firstLetter = x[0];	
21	//Convert letters to numeric code	
22	for (int i = 0; i <= x.length; i++) {	
23	switch (x[i]) {	

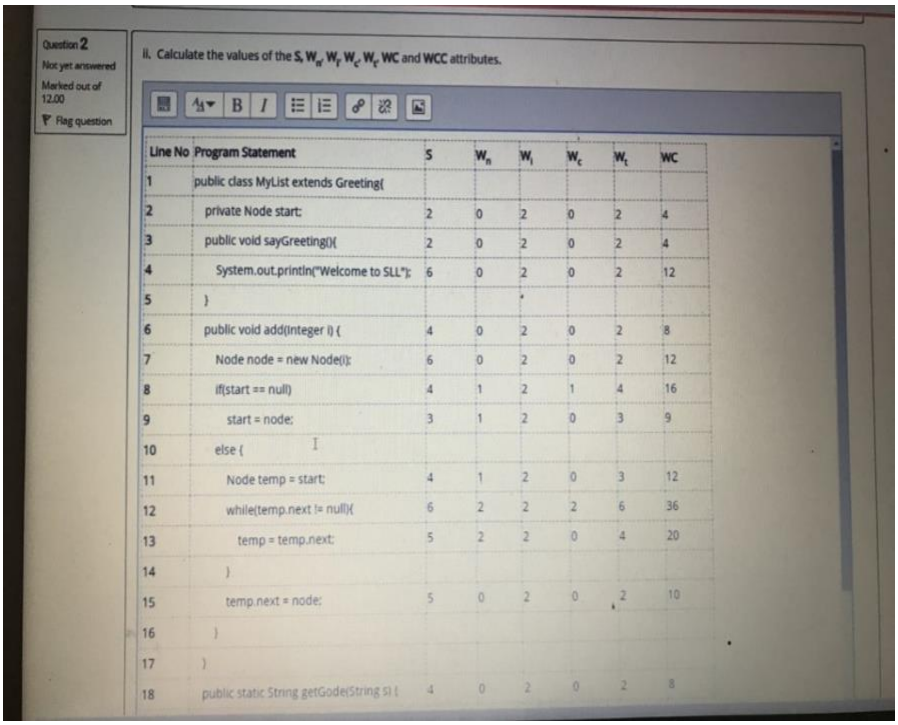


```
17  }
18  public static String getGode(String s) {
19      char[] x = s.toUpperCase().toCharArray();
20      char firstLetter = x[0];
21      //Convert letters to numeric code
22      for (int i = 0; i <= x.length; i++) {
23          switch (x[i]) {
24              case 'B':
25              case 'V':
26                  x[i] = '1';
27              default: {
28                  x[i] = '0';
29              }
30          }
31      }
32  }
```

```
String.getGode().string.s
char[].x,=,s,.,toUpperCase().,.toCharArray()
char.firstLetter,=,x[].0

for().int.i,=,0,i,<=,x,.,length,i,++
switch().x[].i
case.'B',:
case.'V',:
x[].i,=,'1'
default,:
x[].i,=,'0'
```

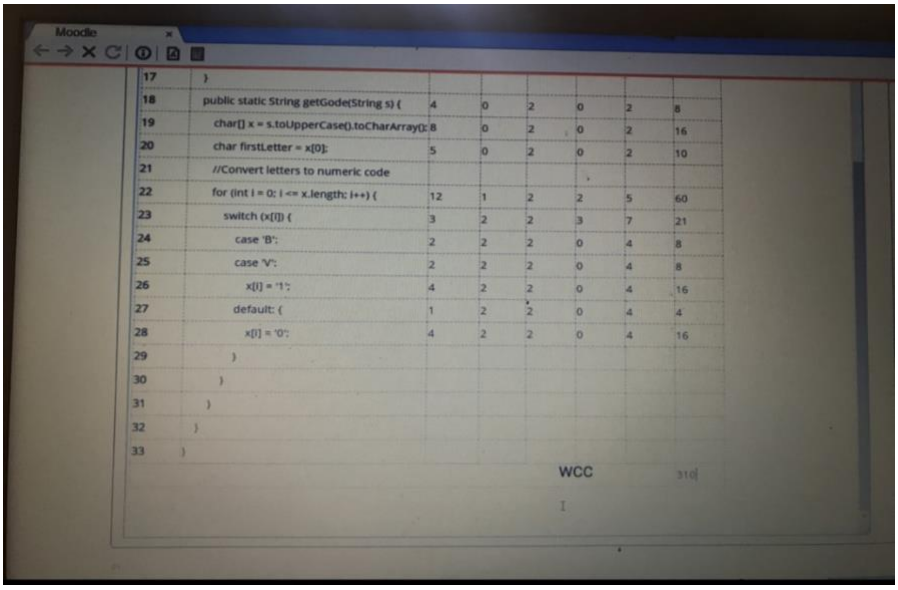
Question 2



Question 2
Not yet answered
Marked out of 12.00
Flag question

ii. Calculate the values of the S, W_n, W_l, W_c, W_t, WC and WCC attributes.

Line No	Program Statement	S	W_n	W_l	W_c	W_t	WC
1	public class MyList extends Greeting{						
2	private Node start;	2	0	2	0	2	4
3	public void sayGreeting(){	2	0	2	0	2	4
4	System.out.println("Welcome to SLL");	6	0	2	0	2	12
5	}						
6	public void add(Integer i) {	4	0	2	0	2	8
7	Node node = new Node(i);	6	0	2	0	2	12
8	if(start == null)	4	1	2	1	4	16
9	start = node;	3	1	2	0	3	9
10	else {						
11	Node temp = start;	4	1	2	0	3	12
12	while(temp.next != null){	6	2	2	2	6	36
13	temp = temp.next;	5	2	2	0	4	20
14	}						
15	temp.next = node;	5	0	2	0	2	10
16	}						
17	}						
18	public static String getGode(String s) {	4	0	2	0	2	8

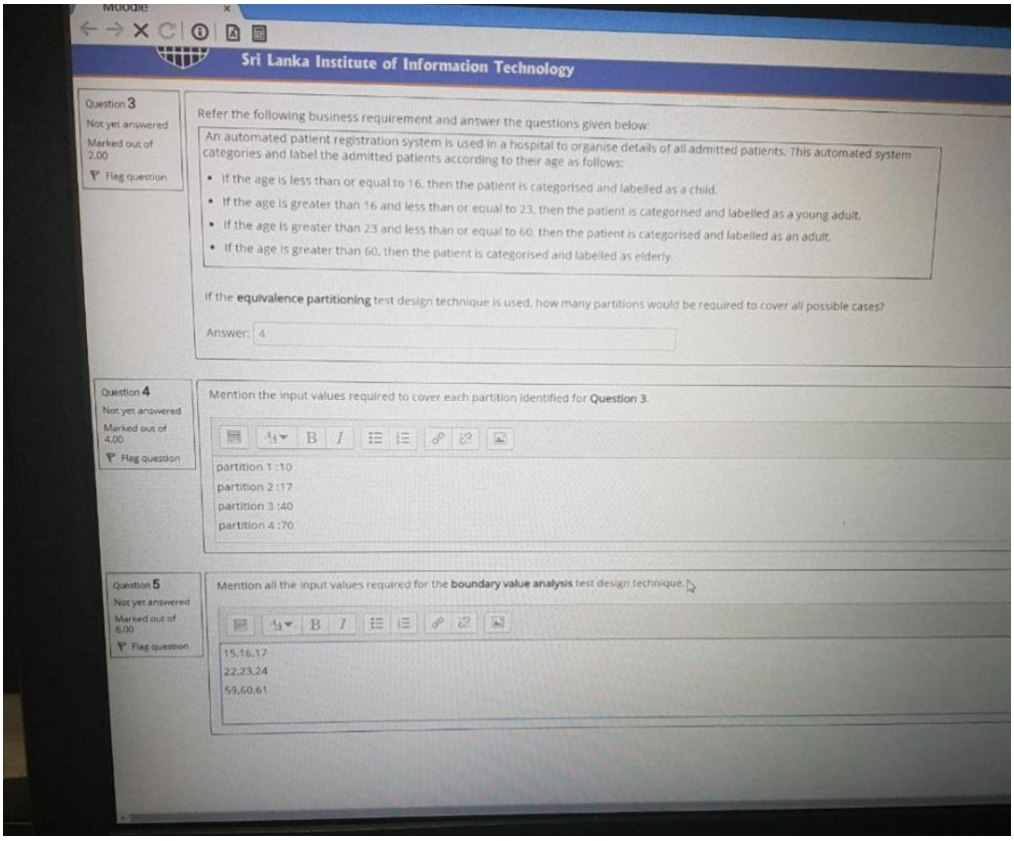


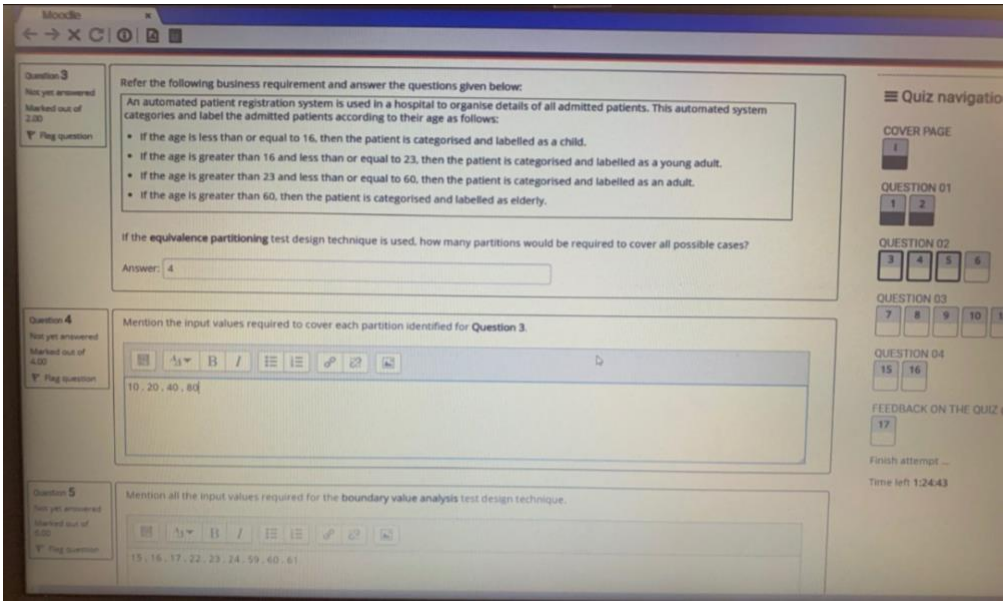
Moodle

17	}						
18	public static String getGode(String s) {	4	0	2	0	2	8
19	char[] x = s.toUpperCase().toCharArray();	8	0	2	0	2	16
20	char firstLetter = x[0];	5	0	2	0	2	10
21	//Convert letters to numeric code						
22	for (int i = 0; i <= x.length; i++) {	12	1	2	2	5	60
23	switch (x[i]) {	3	2	2	3	7	21
24	case 'B':	2	2	2	0	4	8
25	case 'V':	2	2	2	0	4	8
26	x[i] = '1';	4	2	2	0	4	16
27	default: {	1	2	2	0	4	4
28	x[i] = '0';	4	2	2	0	4	16
29	}						
30	}						
31	}						
32	}						
33	}						

WCC 310

Question 3,4,5





Question 9 ,10,11,12