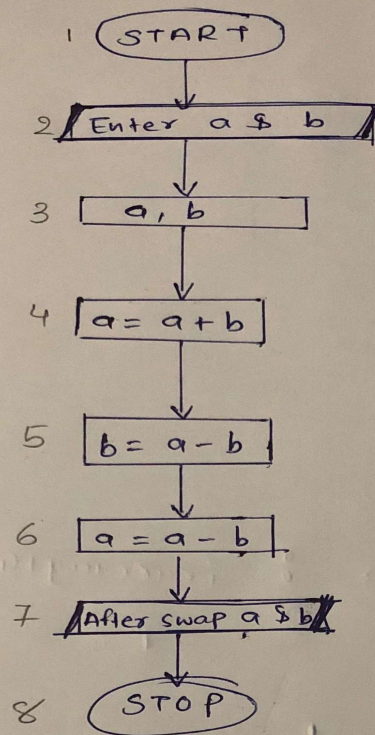


CS501
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Week1:Homework1

Q-6) SWITCH TWO NUMBERS:

Q-6

Flow-chart & Trace-table



Trace-table

Step	a	b	Screen
1			
2			Enter a & b:
3	10	15	
4	25	15	
5	25	10	
6	15	10	
7			After swapping a & b is 15 & 10
8			

```

1 package test;
2
3 import java.util.Scanner;
4
5 public class Q6 {
6
7     public static void main(String args[]) {
8         int a, b;
9         System.out.println("Enter a and b");
10        Scanner reader = new Scanner(System.in);
11
12        a = reader.nextInt();
13        b = reader.nextInt();
14
15        reader.close();
16
17        System.out.println("Before Swapping\na = " + a + "\nb = " + b);
18
19        a = a + b;
20        b = a - b;
21        a = a - b;
22
23        System.out.println("After Swapping\na = " + a + "\nb = " + b);
24    }
25 }

```

Problems @ Javadoc Declaration Console

<terminated> Q6 (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Sep 17, 2019, 7:39:27 PM)

Enter a and b

```

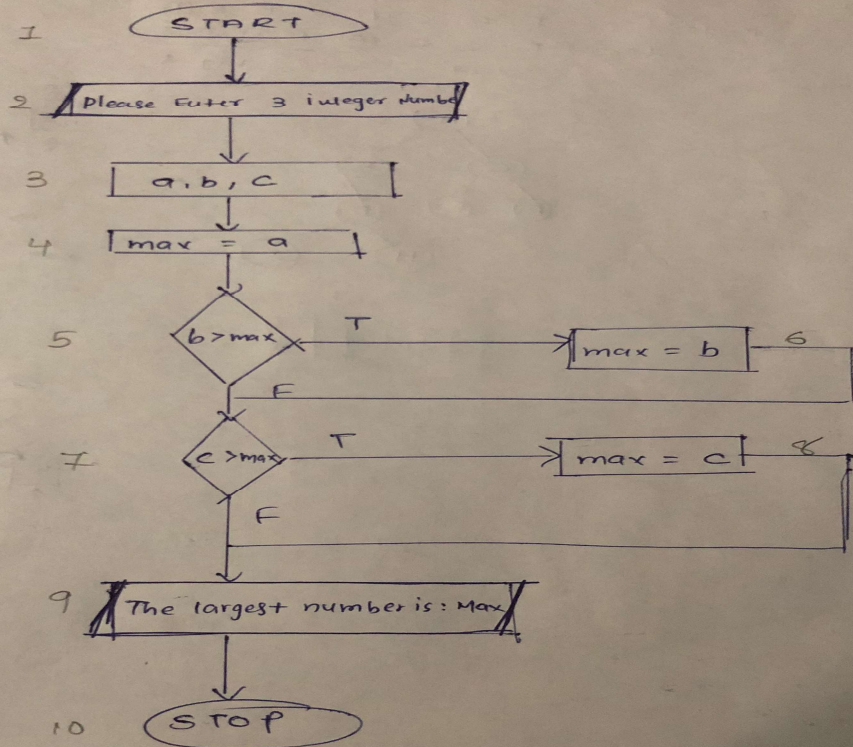
10
15
Before Swapping
a = 10
b = 15
After Swapping
a = 15
b = 10

```


Q7: Find Max of 3 numbers.

Q-7

Flow-chart & Trace-table



Trace-Table

	RAM			Screen			
Step	a	b	c	max	b>max	c>max	
1							Please Enter 3 integer numbers:
2							
3	11	22	33				
4				11			
5					F		
6							
7						T	
8				33			The largest number is: 33 33
9							
10							

```

1 package test;
2 import java.util.Scanner;
3
4 public class Q7 {
5     public static void main(String args[]) {
6         int a, b, c, max;
7         System.out.println("Enter the three integer number:");
8         Scanner reader = new Scanner(System.in);
9         a = reader.nextInt();
10        b = reader.nextInt();
11        c = reader.nextInt();
12        reader.close();
13
14        max = a;
15        if (b > max) {
16            max = b;
17        }
18        if (c > max) {
19            max = c;
20        }
21        System.out.println("the largest number is : " + max);
22    }
23
24 }
25

```

Problems Javadoc Declaration Console

<terminated> Q7 (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Sep 17, 2019, 7:41:26 PM)

Enter the three integer number:

11

22

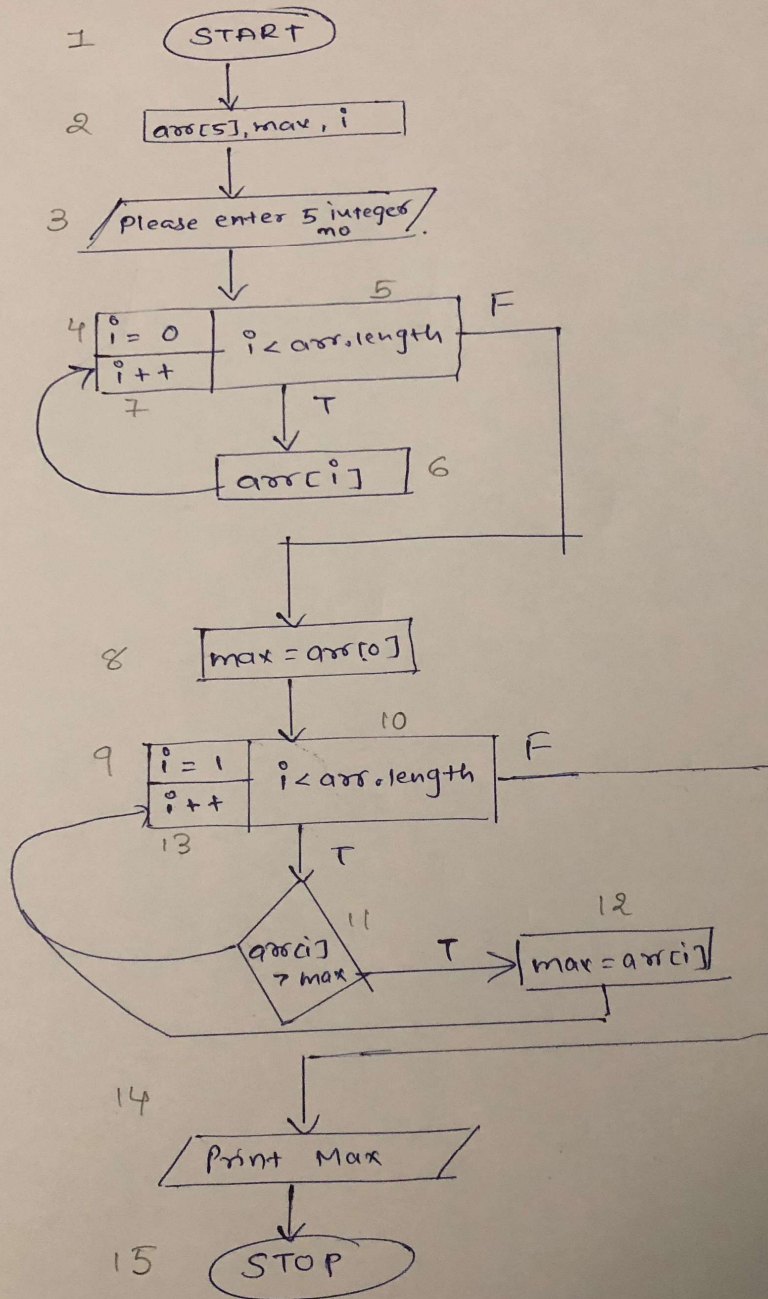
33

the largest number is : 33

Q8: Find max of 5 numbers by scanning

Q-8

Flow-chart & Trace-table.



Trace-table

Step	{arr[i]}					Max	i	arr.length	arr[i] > max	screen
2	?	?	?	?	?	?	?			
3										
4							0			
5								T		
6	15									
7							1			
5								T		
6		25								
7							2			
5								T		
6			36							
7							3			
5								T		
6				8						
7							4			
5								T		
6					18					
7							5			
5						15				
8							1			
9								T		
10										
11									T	
12						25				
13							2			
10								T		
11									T	
12						36				
13							3			
10								T		
11										
13							4			
10								T		
11									T	
13							5			
14										

Please enter 5 integ.

Maximum No is
: 36


```

1 package test;
2 import java.io.*;
3
4 public class Q8 {
5     public static void main(String args[]) throws IOException {
6
7         int arr[] = new int[5];
8         int max, i;
9
10        System.out.println("Enter five Integer Numbers:");
11
12        Reader r = new BufferedReader(new InputStreamReader(System.in));
13        StreamTokenizer tokens = new StreamTokenizer(r);
14        System.out.flush();
15        for (i = 0; i < arr.length; i++) {
16            tokens.nextToken();
17            arr[i] = (int) tokens.nval;
18        }
19
20        max = arr[0];
21        for (i = 1; i < arr.length; i++) {
22            if (arr[i] > max) {
23                max = arr[i];
24            }
25        }
26
27        System.out.println("Largest value is:" + max);
28    }
29

```

Console Problems Debug Shell

<terminated> Q8 (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Sep 18, 2019, 1:25:46 AM)

Enter five Integer Numbers:

15

25

36

8

18

Largest value is:36