King Saud University College of Computer and Information Sciences Computer Science Department CSC 111 First Semester Introduction to Programming with Java

Tutorial # 7 For + while loops

Q1: Show the output of the following segments and Trace the code:

public class Repetition {
public static void main (String[]
args) {
for(int i =0; i<= 55; i+=5) {
if(i==45)
continue;
else if (i==50)
break;
else
System.out.println(i);
}//End for
} // End main

i	output
0	0
5	5
10	10
15	15
20	20
25	25
30	30
35	35
40	40
45	
50	

b.
int value,i;
for(i = 20; i < 30; i+=3){
 value = i%4 + 2;
 if(value > 2)
 System.out.println("value = "+value); }

}// End class

i	value	output	
20	2		
23	5	Value = 5	
26	4	Value = 4	
29	3	Value = 3	
32			

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Q2: write a code segment that reads an integer num and prints the multiplication table up to 10.

```
System.out.println("Enter a number:");
int num = input.nextInt();
for(int i=1; i<=10;i++)
System.out.println(i*num);</pre>
```

Q3: Given the following program segment; write a do..while loop that have the same output.

```
Int number, sum=0; double average;

for (number=1; number <= 20; number ++)

sum+= number;

average = number/20;
```

```
int number = 1, sum=0; double average;
do {
sum+= number;
number++;
}
while(number<=20);
System.out.print(average);</pre>
```