

Midterm 1 Grade & Feedback

100 / 100 = 100%

Excellent! Great job Mos! We've added 5 points to everyone but you have already scored perfectly. Nice work.

	Answer Submitted	Answer
1. [7 points] Complete the code below to achieve the expected result.Expected Result:6.00 3.00 1.50 0.75 0.38 0.19Code:double num = 6.0;for (int i = 1; i<=6; i++) {	7	7
2. [7 points] What will be the output of the following code? for (i=0; i<10; i++) { if (i > 6) continue; } System.out.println(i);	7	7
3. [7 points] Write code that prompts the user for 3 integer values, calculate the average and outputs exactly the following: Provide 3 numbers 5 6 7 Average of 5 6 7 is 6.00	7	7
4. [7 points] a. Name 3 types of modifiers used in a method header, provide examples of each, and explain how each are used b. Name 5 primitive data types	7	7

<p>5 [8 points] a. What is the output of x at A, B, and C</p> <p>x = __ at A</p> <p>x = __ at B</p> <p>x = __ at C</p> <p>b. How would you modify the above code so that x is increment by 1 at B</p>	8	8
<p>6. [7 points] We have a bacteria, the bacteria splits into 2, every minute. You can express the number of bacteria created in a series of number 1, 2, 4, 8, 16, etc. At the start, the bacteria count is 1, the 2nd minute the 1 bacteria splits into 2 so the sum is 3 (i.e. 2+1), the 3rd minute, the 2 will split again and total the count is 4 + 2 + 1, etc.</p> <p>Please use a loop and a Math function to get the sum of all the bacteria after 1 hour.</p> <p>Example output</p>	7	7
<p>7. [7 points] Complete the following code to generate a username that is constructed out of last name and first letter of the last name.</p>	7	7 nice work!
<p>8. [7 points]</p> <p>a. Each method in a class must have a different name. True/False?</p> <p>b. What is method overloading?</p>	7	7
<p>9. [7 points] What are the values of DAYS_IN_WEEK for each row number?</p> <p>1 final int DAYS_IN_WEEK = 7;</p> <p>2 DAYS_IN_WEEK += 7;</p> <p>3 System.out.print(DAYS_IN_WEEK + 7);</p>	7	7

<p>10. [7 points] Please trace the following values for the below program and identify the data type</p> <p>a. length at row #2 : value __ datatype is ___</p> <p>b. temp at row # 7 when (isDigit(temp)) evaluates to true : value __ datatype is ___</p> <p>c. username.substring(i) at row # 8: value __ datatype is ___</p> <p>d. i at row #8: value __ datatype is ___</p> <p>e. userDigit at row#12: value __ datatype is ___</p>	7	7
<p>11.[7 points] How would you modify this code into a do-while loop?</p> <pre>System.out.println("Enter your jokes or enter \"q\" to quit:") String input = scan.nextLine(); // say the user enters 6 System.out.println("You entered :\" + input); while (input != \"q\") { System.out.println("Enter more jokes or enter \"q\" to quit:") input = scan.nextLine(); System.out.println("You entered :\" + input); } System.out.println("Thank you for all your jokes");</pre>	7	7

<p>12. [7 points] Please write the method header that would output the following if main contains the following code:</p> <pre> publicstaticvoidmain(String[] args) { String hi = "Hi!"; String bye = "Bye!"; getGreeting(hi,bye,1); System.out.println(); getGreeting(hi,bye,5); } </pre>	7	7
<p>13. [7 points]</p> <p>a. Please explain with examples what is the difference between high level programming language and low level programming language?</p> <p>b. Java is a low level language , True or False?</p>	7	7
<p>14. [8 points] Identify the errors in this program and explain your rationale</p> <p>a. logic error(s) on row #</p> <p>row # .. rationale :</p> <p>row # .. rationale :</p> <p>b. syntax error(s) on row #</p> <p>row # .. rationale :</p> <p>row # .. rationale :</p> <p>c. Please rewrite the code and fix the errors you've found</p>	8	8