**Grading Summary**

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| **Grade Details - All Questions** |

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| |  |  | | --- | --- | | **Page:** | 1  [2](https://takeexam.next.ecollege.com/(NEXT(0063174809))/Main/CourseMode/StudentGradebookExam/StudentGradebookExamView.ed?examID=52464734&courseItemSubId=439389255&studentID=22698822&currentPageNumber=2&digest=cLnV%252fqHTjjHbl8%252b%252fj4oT60qTfp%252fvdrrt%252bmGp3IZujvg%253d&) |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 1. | Question : | Write the definition of an expression. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A combination of variables, operators, primitive types and other items to execute a task within computer programming. From my program: "Expression : An expression is a group of values, variables, operators, and constants that form a set of instructions to perform that produces another value." | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1.2 of 1.2** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 2. | Question : | Write the definition of an algorithm. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | An Algorithm is a combination of expressions that form instructions that complete a problem within computer programming. From my program: "Algorithm : A step-by-step problem-solving procedure, especially an established, recursive computational procedure for solving a problem in a finite number of steps." | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1.2 of 1.2** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 3. | Question : | In each of the following  loops, determine the value of ires at the end of the loops execution **and** the number of times the loop executed:      a.     int ires= 1;        for (int index = - 5; index <= 5; index ++)             ires += 4;        b.   int  ires = 1;       while (ires / 5 == 0) {            ires \*= 4;       } | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | A = 45 B = 16 | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **1 of 2** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 4. | Question : | Write a complete *Java program* to read a temperature in degrees Fahrenheit and output the corresponding temperature in degrees Celsius (types need to be floating point). The formula for the conversion is:  Fahrenheit = 9/5 Celsius + 32 | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | import java.util.Scanner; public class Test {      public static void main(String [] args){      Scanner myscanner = new Scanner(System.in);  float Fahrenheit = 0;  float Celsius = 0;  System.out.println("Please input the Fahrenheit.");  Fahrenheit = myscanner.nextFloat();      Celsius = (float) ((5.0 / 9.0)\* (Fahrenheit - 32.0)) ;  System.out.print(Celsius);  myscanner.close();     }  } | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **2 of 2** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 5. | Question : | Provide the output of the following Java program, given the input of: 7, 13, 7, and 11.  import java.text.\*;  import java.io.\*;  public class lab2 {     public static void main (String argv []) throws IOException {        double result;        int int1, int2, int3, int4;        BufferedReader stdin =                  new BufferedReader (new InputStreamReader (System.in));        String UserInput = stdin.readLine ();        String [] list = UserInput.split (“\\+”);        int1 = Integer.parseInt (list [0]);        int2 = Integer.parseInt (list [1]);        int3 = Integer.parseInt (list [2]);        int4 = Integer.parseInt (list [3]);        result = (int1 + int2 + int3 + int4) / 4;        System.out.println ("The average is: " + result);      }   } | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | You will get an exception: Exception in thread "main" java.lang.Error: Unresolved compilation problems:  The method split(String) in the type String is not applicable for the arguments () Syntax error on tokens, delete these tokens  at Test.main(Test.java:9) | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **2 of 2** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 6. | Question : | How must the user enter the data in the preceding question for the program to run correctly. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | This isn't on the user. This is on the programmer to instead use individual statements to process the integers and add them to the list. I don't like how this is done because there is too much room for error. It really should just be done using the scanner and the nextInt() method instead of the Bufferedreader because there can be too many exceptions that can be entered. | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **0.6 of 0.6** | |  | Comments: | 7+13+7+11 | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 7. | Question : |  | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | import java.util.Scanner; import java.math.\*; public class Test {      public static void main(String [] args){      Scanner myscanner = new Scanner(System.in);  float Radius = 0;  float Volume;  System.out.println("Please input the Radius of the Sphere.");  Radius = myscanner.nextFloat();      Volume = (float) (3.0 / 4.0\* Math.PI \* Math.pow(Radius, 3)) ;  System.out.print(Volume);  myscanner.close();     }  } | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **3 of 4** | |  | Comments: | SA? | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 8. | Question : | Write a *java program* to accept two integer values representing a range as parameters. Issue an error message if the first value is less than the second value and terminate. Otherwise calculate and return the sum of the integer values in that range (inclusive). ie: if the input values are 5 and 10 the sum of the integer values is 45 (5 + 6 + 7 + 8 + 9 + 10). | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | import java.util.Scanner; public class Test {      public static void main(String [] args){      Scanner myscanner = new Scanner(System.in);  int startrange = 0;  int endrange = 0;  System.out.println("Please input the beginning of the range.");  startrange = myscanner.nextInt();  System.out.println("Please input the end of the range.");  endrange = myscanner.nextInt();  int sum = 0;  for (int i = startrange;i<endrange+1;i++){  sum = sum+i;  }  System.out.println("The sum is = " + sum);  myscanner.close();     }  } | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **3 of 4** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 9. | Question : | Produce the output of the following *Java program*:  class StringTest {      public static void main (String [] args) {          String word1 = "Jimmy Buffet";          String word2 = "Red Hot Chili Peppers";          String word3;          System.out.print (word1.substring (0, word1.indexOf("y")));          System.out.println (word2.substring (word2.lastIndexOf("e")));          word3 = word1.substring (0, 4) + word2.substring (0, 5);          System.out.print ("word3's value after word2 + word1 = " + word3 + "\n");          word3 = word2 + word1;          System.out.print ("After concatenation = " + word3 + " ");          System.out.println ( word2 + " + " + word1 +"\n");          if (word1.compareTo (word2) > 0)              System.out.println (word1 + " is greater than " + word2);          else              System.out.println (word2 + " is greater than " + word1);          word1 = "Django Reinhardt";          int space = word1.indexOf (" ");          System.out.print ("Space is at position " + space + " in " + word1 +"\n");          word2 = word1.substring (0, space);          System.out.print ("First name = " + word2 + "\n");      }  } | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | Jimmers word3's value after word2 + word1 = JimmRed H After concatenation = Red Hot Chili PeppersJimmy Buffet Red Hot Chili Peppers + Jimmy Buffet  Red Hot Chili Peppers is greater than Jimmy Buffet Space is at position 6 in Django Reinhardt First name = Django | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **3 of 3** | |  | Comments: |  | | | |