Day 4 ASSESSMENT

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- 1. What is the primary reason to use functions in programming?
 - 1. Increase execution time

- 2. Reduce memory usage
- Improve modularity and reusability
- 4. Increase code repetition
- 2. Which Java keyword is used when a function returns nothing?

1. null

2. void

3. empty

4. none

- 3. Which of the following follows Java's method definition syntax correctly?
 - function myFunc(int a) => a +1

2. int myFunc(a) { return a; }

3. int myFunc(int a) { return a; }

4. myFunc(int a): return a

- 4. What does the DRY principle stand for?
 - 1. Don't Rewrite Yourself

2. Do Run Yourself

Don't Repeat Yourself

4. Don't Reset Yourself

- 5. Which function definition correctly demonstrates overloading?
 - 1. int greet() and void greet()
 - Z. void greet (String name) and void greet()
 - 3. void greet (String name, String name)
 - 4. void greet (String) and greet (String)
- 6. What will be the output of the following code?

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int square(int num) {
  return num* num;
```

}

System.out.println(square(4));

1.8

z. 16

3.4

4 Frro

- 7. Which of the following is NOT a valid function name in Java?
 - 1. calculateSum

-22 calculate

3. displayMessage

4. get_total

- 8. Which of the following is a built-in function in Java?
 - System.out.println()

2. addNumbers()

3. greetUser()

4. calculateTax()

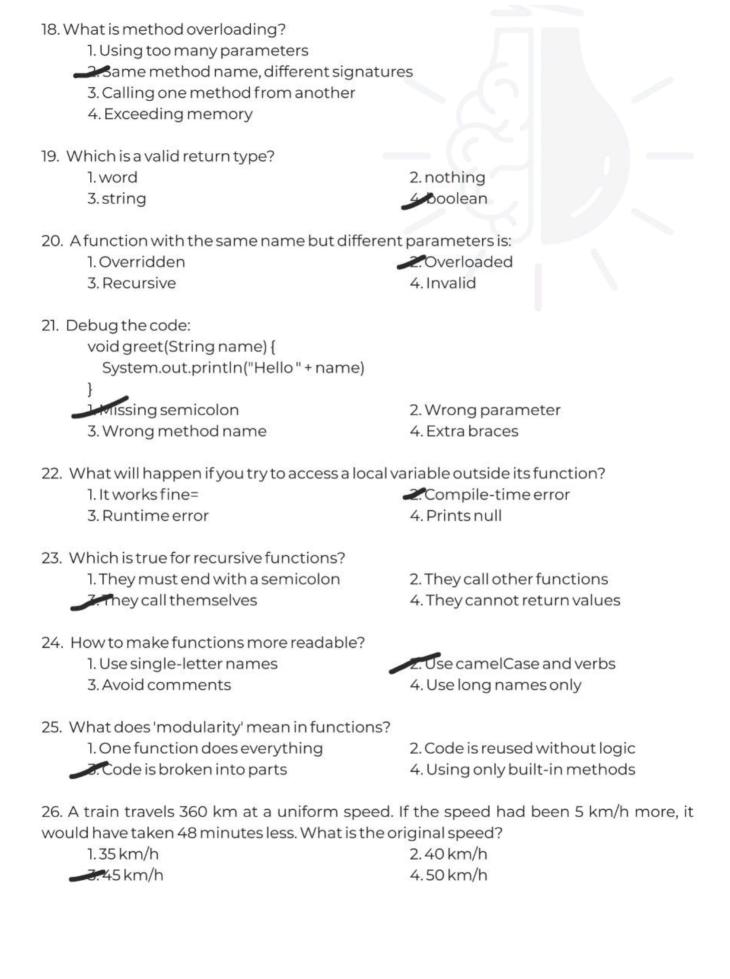
- 9. Which of the following statements is TRUE about functions?
 - 1. They reduce readability

2. They prevent reuse

3. They modularize code

--- They increase complexity

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10. What is the purpose of the return statement?
                                                   z. To pass value back from function
      1. To print output
      3. To exit a loop
                                                   4. To define variables
11. Guess the output:
      void sayHello() {
        System.out.println("Hello!");
      sayHello();
     Hello!
                                                   2. Error
      3. void
                                                   4. Nothing
12. Which of the following calls a function named displayMessage with one argument?
      1. displayMessage();
                                                 displayMessage("Hi");
      3. displayMessage;
                                                   4. call displayMessage("Hi")
13. What does the following function return?
      int add(int a, int b) {
        return a + b;
      System.out.println(add(3,7));
     1.10
                                                   2.37
      3.4
                                                   4. Error
14. What type of value does the following function return?
      double getDiscount() {
        return 0.2;
                                                   2. float
      1. int
     Z. double
                                                   4. void
15. Which line will produce a compilation error?
      1. void greet() {}
                                                   2.intx=5:
      3. return x + 1;
                                                   System.out.println(return);
16. What is the output of:
      String message = "Local";
      System.out.println(message);
     Local
                                                   2. Error
      3. "Local"
                                                   4. Null
17. In Java, where are functions defined?
      1. Outside class
                                                   2. Inside loops
      3. Inside class
                                                   4. Anywhere
```



27. A and B together can complete a piece of wo 30 days. How many days will A alone take?	rk in 20 days. B alone can complete it in
3. 45	4.50
28. The average of 5 consecutive odd number numbers?	rs is 35. What is the smallest of these
1.29 3.33	2 :31 4.35
29. A can do a job in 16 days, and B in 12 days. They work together for 4 days. How much work is left?	
1.1/3 3. 5/12	2.1/4 4.7/12
30. The average age of a group of 8 students is 22 years. If one more student joins the group, the average becomes 21. What is the age of the new student? 2.14	
3.15	4.16