Chapter 4 Homework

Multiple Choice

1. B	6. D	11. A
2. D	7. A	12.C
3. A	8. B	13. C
4. B	9. A	14.B
5. C	10. A	

True and False

15. False	17. True	19. False
16. True	18. True	20. True

Find the Error

Changes have been highlighted.

```
if (average == 100)
  System.out.println("Perfect Average!");
```

Algorithm Workbench

```
2. // Better: x = y == 10 ? 0 : 1;
if (y == 10)
   x = 0;
else x = 1;
```

Short Answer

- 1. A statement is conditionally executed when there are a certain set of requirements for the statement to be run.
- 2. There is no semicolon placed after the if condition, doing so will cause an error.
- 3. Indentation improves clarity of code by showing the nesting of logical groups of code visually.
- 4. You'll get an error, the == operator only compares naive types.
- 5. A flag variable indicates whether a condition exists in a program. It should be a boolean.
- 6. If none of the conditions are satisfied, nothing will happen.