***ERROR BASED QUESTIONS:***

Number 1: Find at least two errors in the following program

**package** test;

1. **import** java.util.Scanner;
2. **class** First
3. {
4. Scanner inp = **new** Scanner(System.***in***);
5. **public** **int** setValue =0;
6. **private** **int** value = 0;
7. First()
8. {
9. setValue = inp.nextFloat();
10. value = setValue;
11. }
12. **public** **void** display()
13. {
14. System.***out***.println("Variable initialized is: ",setValue);
15. }
16. }
17. **public** **class** Main
18. {
19. **public** **static** **void** main(String[] args)
20. {
21. First f1 = **new** First();
22. f1.value = f1.value\*f1.value;
23. f1.display();
24. }
25. }

Answer:  
**Error # 1:**

**Line 9 :** setValue is an int data type but input is taken as nextFloat()

**Correct Code:** setValue = inp.nextInt();

**Error # 2:**

**Line 14:** Multiple parameters passed to **System.out.println()**. Println only takes + operator.

**Correct Code:** System.***out***.println("Variable initialized is: " + setValue);

Number 2: Find all errors in following programs.

Hint: Look about super() in java before attempting.

1. **class** Parent {
2. **int** x;
3. Parent(**int** x) {
   1. **this**.x = x;
4. }
5. **void** display() {
   1. System.***out***.println("Value of x: " + x);
6. }
7. }
8. **class** Child **extends** Parent
9. {
10. **int** y;
11. Child(**int** x, **int** y)
12. {
    1. **this**.x = x;
    2. **this**.y = y;
13. }
14. **void** display()
15. {
    1. System.***out***.println("Value of x: " + x + ", Value of y: " + y);
16. }
17. }
18. **class** GrandChild1 **extends** Child {
19. **int** z;
20. GrandChild1(**int** x, **int** y, **int** z) {
    1. **this**.x = x;
    2. **this**.y = y;
    3. **this**.z = z;
21. }
22. **void** display() {
    1. System.***out***.println("Value of x: " + x + ", Value of y: " + y + ", Value of z: " + z);
23. }
24. }
25. **class** GrandChild2 **extends** Child,GrandChild1
26. {
27. GrandChild2(**int** x, **int** y)
28. {
    1. **this**.x = x;
    2. **this**.y = y;
29. }
30. **void** display() {
    1. System.***out***.println("Value of x: " + x + ", Value of y: " + y);
31. }
32. }
33. **public** **class** Main {
34. **public** **static** **void** main(String[] args) {
    1. Child child = **new** Child(10, 20);
    2. child.display();
    3. GrandChild1 gc1 = **new** GrandChild1(10, 20, 30);
    4. gc1.display();
    5. GrandChild2 gc2 = **new** GrandChild2(10, 20);
    6. gc2.display();
35. }
36. }

Answer:  
**Error # 1:**

**Line 10(a),20(a),20(b):** Direct assignment of parent class variable cannot be done without using Super() constructor for super class.

**Correct Code:** Line 10(a): super(x)

Line 20(a,b):(super(x,y)

**Error # 2:**

**Line 25:** Multiple Inheritance is not allowed for classes.

**Correct Code: class** GrandChild2 **extends** Child