Java Questions & Answers – Class Fundamentals & Declaring objects

1. What is the stored in the object obj in following lines of code?  
box obj;  
a) Memory address of allocated memory of object.  
b) NULL  
c) Any arbitrary pointer  
d) Garbage  
View Answer

Answer: b  
Explanation: Memory is allocated to an object using new operator. box obj; just declares a reference to object, no memory is allocated to it hence it points to NULL.

2. Which of these keywords is used to make a class?  
a) class  
b) struct  
c) int  
d) None of the mentioned  
View Answer

Answer:a  
Explanation: None.

3. Which of the following is a valid declaration of an object of class Box?  
a) Box obj = new Box();  
b) Box obj = new Box;  
c) obj = new Box();  
d) new Box obj;  
View Answer

Answer: a  
Explanation: None.

4. Which of these operators is used to allocate memory for an object?  
a) malloc  
b) alloc  
c) new  
d) give  
View Answer

Answer: c  
Explanation: Operator new dynamically allocates memory for an object and returns a reference to it. This reference is address in memory of the object allocated by new.

5. Which of these statement is incorrect?  
a) Every class must contain a main() method.  
b) Applets do not require a main() method at all.  
c) There can be only one main() method in a program.  
d) main() method must be made public.  
View Answer

Answer: a  
Explanation: Every class does not need to have a main() method, there can be only one main() method which is made public.

6. What is the output of this program?

1. **class** main\_class {
2. **public** **static** **void** main(String args[])
3. {
4. **int** x = 9;
5. **if** (x == 9) {
6. **int** x = 8;
7. System.out.println(x);
8. }
9. }
10. }

a) 9  
b) 8  
c) Compilation error  
d) Runtime error  
View Answer

Answer: c  
Explanation: Two variables with the same name can’t be created in a class.  
output:  
$ javac main\_class.java  
Exception in thread “main” java.lang.Error: Unresolved compilation problem:  
Duplicate local variable x

7. Which of the following statements is correct?  
a) Public method is accessible to all other classes in the hierarchy  
b) Public method is accessible only to subclasses of its parent class  
c) Public method can only be called by object of its class.  
d) Public method can be accessed by calling object of the public class.  
View Answer

Answer: a  
Explanation: None.

8. What is the output of this program?

1. **class** box {
2. **int** width;
3. **int** height;
4. **int** length;
5. }
6. **class** mainclass {
7. **public** **static** **void** main(String args[])
8. {
9. box obj = **new** box();
10. obj.width = 10;
11. obj.height = 2;
12. obj.length = 10;
13. **int** y = obj.width \* obj.height \* obj.length;
14. System.out.print(y);
15. }
16. }

a) 12  
b) 200  
c) 400  
d) 100  
View Answer

Answer: b  
Explanation: None.  
output:  
$ javac mainclass.java  
$ java mainclass  
200

9. What is the output of this program?

1. **class** box {
2. **int** width;
3. **int** height;
4. **int** length;
5. }
6. **class** mainclass {
7. **public** **static** **void** main(String args[])
8. {
9. box obj1 = **new** box();
10. box obj2 = **new** box();
11. obj1.height = 1;
12. obj1.length = 2;
13. obj1.width = 1;
14. obj2 = obj1;
15. System.out.println(obj2.height);
16. }
17. }

a) 1  
b) 2  
c) Runtime error  
d) Garbage value  
View Answer

Answer: a  
Explanation: When we assign an object to another object of same type, all the elements of right side object gets copied to object on left side of equal to, =, operator.  
output:  
$ javac mainclass.java  
$ java mainclass  
1

10. What is the output of this program?

1. **class** box {
2. **int** width;
3. **int** height;
4. **int** length;
5. }
6. **class** mainclass {
7. **public** **static** **void** main(String args[])
8. {
9. box obj = **new** box();
10. System.out.println(obj);
11. }
12. }

a) 0  
b) 1  
c) Runtime error  
d) classname@hashcode in hexadecimal form  
View Answer

Answer: d  
Explanation: When we print object internally toString() will be called to return string into this format classname@hashcode in hexadecimal form.  
output:  
$ javac mainclass.java  
$ java mainclass  
box@130671e