



Java Quiz: Chapter 10

Guidelines: Answer the questions below by ticking the box next to the correct response(s) to each question. Be sure to check your answers to ensure that they are correct.

1. What is an object?

Choose one answer.

- ☒ A. **An object is an instance of a class – there may be many objects created from a single class**
- ☐ B. An object is an extension of a class – there is one object created per class
- ☐ C. An object is the official name given to a class found in a library
- ☐ D. An object is the name given to graphical components only

2. What is an object property?

Choose one answer.

- ☐ A. A property is made up of numerous objects, i.e. a car property has a colour object
- ☐ B. A property is the name given to a technical structure in a program
- ☒ C. **A property is a characteristic of an object, i.e. the manufacturer and model of a car object**
- ☐ D. A property is a timestamp of when an object was instantiated

3. What line of code is needed to create an object called 'TheHobbit' from the following class?

```
public class Book{  
    public String title;  
    public String author;  
    public String isbn;  
}
```

Choose one answer.

- ☐ A. Book TheHobbit = new Book(title,author,isbn);
- ☐ B. Book TheHobbit = Book(title,author,isbn);
- ☐ C. Book TheHobbit = new title,author,isbn;
- ☒ D. **Book TheHobbit = new Book();**

4. What is the purpose of the following line of code?

```
ArrayList<Book> myBooks = new ArrayList<Book>();
```

Choose one answer.

- ☐ A. Instantiates a book list, of type ArrayList, to store ArrayList objects
- ☒ B. **Instantiates a dynamic array list, of type myBooks, to store myBooks objects**
- ☐ C. Instantiates a dynamic array list, of type Book, to store Book objects made from the Book class
- ☐ D. Instantiates a book list, of type myBooks, to store ArrayList objects

5. What is the purpose of the following code?

```
for(Book myItem : myBooks){  
    System.out.println("\n---->Books:");  
    System.out.println("Title: " + myItem.title);  
    System.out.println("Author: " + myItem.author);  
    System.out.println("ISBN: " + myItem.isbn);  
}
```

Choose one answer.

- ☐ A. This is a 'FOR' loop used to iterate through the Book array
- ☐ B. This is a 'FOR EACH' loop used to iterate through the myItem array
- ☒ C. **This is a 'FOR EACH' loop used to iterate through each Book item found in the myBooks array**
- ☐ D. This is a 'FOR' loop used to iterate from 0 to the myBooks value

6. What is a constructor?

Choose one answer.

- ☒ A. **A constructor enables an object to be created from a class with a set of default values**
- ☐ B. A constructor enables a class to be created from an object with a set of default values
- ☐ C. A constructor enables an object to be created from a class
- ☐ D. A constructor enables a class to be created from an object