Advanced Object Oriented Programming – Inheritance, super, Polymorphism

1. Suppose that a program contains the following classes.

```
class A {
    public A() {
        System.out.print("A");
    }
}
class B extends A {
    public B() {
        System.out.print("B");
    }
}
```

What, if anything, would be printed by each of the following statements if they appeared in the main method of the program?

```
a) A a = new A();b) B b = new B();c) A c = new B();
```

- 2. Suppose a program is to use the classes Book and History (extending Book).
 - a) In which class should each of the following fields be declared:
 - title
 - timePeriod
 - author
 - b) Write a constructor for the class Book with header

```
public Book (String title, String author)
```

c) Write a constructor for the class <code>History</code> with header

```
public History (String title, String author,
String timePeriod)
```

- d) Write a toString method for the Book class.
- e) Write a toString method for the History class.