**Q1. What is intern() method?**

**Ans**. Java String intern() method is used for getting the string from the memory if it is already

present. This method ensures that all the same strings share the same memory. For example,

creating a string “hello” 10 times using intern() method would ensure that there will be only

one instance of “Hello” in the memory and all the 10 references point to the same instance.

**Q2. What are the rules of immutability?**

**Ans.** Following are the requirements:

1. The class must be declared as final (So that child classes can’t be created)
2. Data members in the class must be declared as final (So that we can’t change the value of it after object creation)
3. A parameterized constructor
4. Getter method for all the variables in it
5. No setters(To not have the option to change the value of the instance variable)

**Q3. What is the use of matches method?**

**Ans.** This method tells whether or not this string matches the given regular expression. An invocation

of this method of the form str.matches(regex) yields exactly the same result as the expression

Pattern.matches(regex, str).

Syntax

Here is the syntax of this method –

public boolean matches(String regex).

**Q4. What is Singleton pattern?**

**Ans.** Singleton design pattern is used when you want to have only one instance of a given class.

It is a creational design pattern wherein we deal with the creation of objects.

**Q5. What is the use of replaceAll()?**

**Ans.** The **replaceAll**() method replaces each substring of this string (the String on which it is

called) that matches the given regular expression with the given replacement. It

internally uses classes like Pattern and Matcher from **java**. util. regex package for

searching and replacing matching characters or substring.