1. **What is purpose of Matches?**

The matches() method of Matcher Class is used to get the result whether this pattern matches with this matcher or not. It returns a boolean value showing the same. Parameters: This method do not takes any parameter.

Below is the syntax of the method: public boolean matches(String regex)

1. **What is purpose of Replace All?**

It replaces all the substrings that fits the given regular expression with the replacement String. The difference between replace() and replaceAll() method is that the replace() method replaces all the occurrences of old char with new char while replaceAll() method replaces all the occurrences of old string with the new string.

1. **What is the purpose of intern method?**

The java string intern() method returns the interned string. It returns the canonical representation of string. It can be used to return string from memory, if it is created by new keyword. It creates exact copy of heap string object in string constant pool.

1. **Singleton pattern?**

Singleton pattern restricts the instantiation of a class and ensures that only one instance of the class exists in the java virtual machine.

In other words, a **singleton** class is a class that can have only one object (an instance of the class) at a time per JVM instance. The singleton class must provide a global access point to get the instance of the class.

1. **Rules for immutability?**

Declare the class as final so it can't be extended.

Make all fields private so that direct access is not allowed.

Don't provide setter methods for variables.

Make all mutable fields final so that it's value can be assigned only once.

Initialize all the fields via a constructor performing deep copy.