Pattern pattern() method in Java with Examples

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The **pattern()** method of the **Pattern** class in Java is used to get the regular expression which is compiled to create this pattern. We use a regular expression to create the pattern and this method used to get the same source expression.

Syntax:

```
public String pattern()
```

Parameters: This method does not accepts anything as parameter.

Return Value: This method returns the pattern's source regular expression.

Below programs illustrate the pattern() method:

Program 1:

```java
// Java program to demonstrate
// Pattern.pattern() method

import java.util.regex.*;

public class GFG {
    public static void main(String[] args)
    {

        // create a REGEX String
        String REGEX = "(.*)(for)(.*)?";

        // create the string
        // in which you want to search
        String actualString
            = "code of Machine";

        // create pattern
        Pattern pattern1 = Pattern.compile(REGEX);

        // find the regular expressio of pattern
        String RegularExpression = pattern1.pattern();

        System.out.println("Pattern's RegularExpression = "
                            + RegularExpression);
    }
}
```

Output:

```
Pattern's RegularExpression = (.*)(for)(.*)?
```

Program 2:

```java
// Java program to demonstrate
// Pattern.compile method

import java.util.regex.*;

public class GFG {
    public static void main(String[] args)
    {

        // create a REGEX String
        String REGEX = "(.*)(ee)(.*)?";

        // create the string
        // in which you want to search
        String actualString
            = "geeks";

        // create pattern
        Pattern pattern1 = Pattern.compile(REGEX);

        // find the regular expressio of pattern
        String RegularExpression = pattern1.pattern();

        System.out.println("Pattern's RegularExpression = "
                        + RegularExpression);
    }
}
```

Output:

```
Pattern's RegularExpression = (.*)(ee)(.*)?
```

References:

https://docs.oracle.com/javase/10/docs/api/java/util/regex/Pattern.html#pattern()