

QUESTION 01

```
01.
```

```
//import necessary packages
import java.util.Scanner;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
public class Regularexp {
  public static void main(String[] args){
    Scanner scanner = new Scanner(System.in);
    while (true) {
      //Read Regex from user
      System.out.println("Enter the regex:");
      String readRegex = scanner.next();
      //Create the pattern
      String patternString = "A";
      Pattern pattern = Pattern.compile(patternString,Pattern.CASE_INSENSITIVE);
      //Read the input string to check the match
      Matcher matcher = pattern.matcher(readRegex);
//Create a matcher
      boolean found = false;
      int j = 0;
      while (matcher.find()) {
         System.out.println("I found the text "+ patternString + " starting at index "+
matcher.start()+ " and ending at index "+matcher.end()+".");
//Print as: I found the text "j" starting at index 0 and ending at index 1.
         found = true;
      }
      if(!found){
         System.out.println("Could not found.");
//Print
    }
```

```
Run: Regularexp ×

"C:\Program Files\Java\jdk-17.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\Intellight
Enter the regex :

Regular Expressions in Java

I found the text A starting at index 5 and ending at index 6.

Enter the regex :

Could not found.
Enter the regex :

Could not found.
Enter the regex :

I found the text A starting at index 1 and ending at index 2.

I found the text A starting at index 3 and ending at index 4.
Enter the regex :

Rosener

I found the text A starting at index 1 and ending at index 2.

Enter the regex :

String

Could not found.
Enter the regex :

I found the text A starting at index 1 and ending at index 2.
Enter the regex :

String

Could not found.
Enter the regex :
```

02.

I.

```
Run: regexExpressionsPart02 ×

C:\Program Files\Java\jdk-17.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\
Enter the regex:

I found the text Kr* starting at index 0 and ending at index 1.
Enter the regex:

I found the text Kr* starting at index 0 and ending at index 2.
Enter the regex:

Enter the regex:

Reper I found the text Kr* starting at index 0 and ending at index 6.
Enter the regex:

Reper I found the text Kr* starting at index 0 and ending at index 6.
Enter the regex:

Representation of found.
Enter the regex:

Representation of found in the text Kr* starting at index 0 and ending at index 4.
Enter the regex:

Representation of found in the text Kr* starting at index 0 and ending at index 4.
Enter the regex:

Representation of found in the text Kr* starting at index 0 and ending at index 4.
Enter the regex:

Representation of found in the text Kr* starting at index 0 and ending at index 4.

Enter the regex:

Representation of found in the text Kr* starting at index 0 and ending at index 4.

Enter the regex:

Representation of found in the found in
```

II.

```
Run: regexExpressionsPart02 ×

TC:\Program Files\Java\jdk-17.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetB Enter the regex:

String

I found the text [aeiou] starting at index 3 and ending at index 4.

Enter the regex:

Find I found the text [aeiou] starting at index 0 and ending at index 1.

I found the text [aeiou] starting at index 2 and ending at index 3.

I found the text [aeiou] starting at index 3 and ending at index 4.

Enter the regex:

XMI

Could not found.

Enter the regex:

Process finished with exit code 130
```

III.

