1. Select **five** methods from the **String JavaDocs** and describe the following for each:
   1. That is the method signature?
   2. What does the method do?
   3. Why would this method be useful (how could you use it)?

The charAt() method has a signature of **public char charAt(int index).** Its use is to return the character at the passed in index. This would be useful to retrieve a user’s initials, from their first and last name.

The charconcatAt() method has a signature of **public String** **concat(String str).** This concatenates the passed in string to end of the String used to call the method. This would be useful to create full names, email addresses or URLs.

The split() method has a signature of **public String split(String regex)**& **public String split(String regex, int limit)** This splits a string based on a character or index. This would be useful to store values of the string arrays or get rid of character you don’t want. For example if we import a csv we likely don’t want the commas

The length() method has a signature of **public int length()**.This returns the length of the string it is called with. This would be useful for getting average name length (something we have done in class) or maybe checking password input to make sure it is more than 10 characters

The toUpperCase() method has a signature of **public String toUpperCase()** & **public String toUpperCase(Locale locale).** This **c**hanges all the characters in the string to upper case. This would be useful for keeping things consistent. For instance a user may enter ‘mT’ and another “MT”. In order to keep things consistent we could run this method on the 2nd.

1. Select **five** methods from the **Array JavaDocs** and describe the following for each:
   1. What is the method signature?
   2. What does the method do?
   3. Why would this method be useful (how could you use it)?

Sources

https://www.geeksforgeeks.org/java-string-charat-method-example/  
<https://beginnersbook.com/2013/12/java-string-concat-method-example/>  
<https://www.javatpoint.com/java-string-split>  
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