FACULTY OF INFORMATION TECHNOLOGY AND ENGINEERING

CSE 201

ADVANCED PROGRAMMING

WITH

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Outlines

- Regular Expressions

A RegEx, or Regular Expression, is a sequence of characters that forms a search pattern.
RegEx can be used to check if a string contains the specified search pattern.

RegEx Module

Python has a built-in package called re, which can be used to work with Regular Expressions.

Importing re module

```
import re
```

Example:

Search the string to see if it starts with "The" and ends with "Spain":

```python
import re

txt = "The rain in Spain"
x = re.search("^The.*Spain$", txt)
```

```python
import re

#Check if the string starts with "The" and ends with "Spain":

txt = "The rain in Spain"
x = re.search("^The.*Spain$", txt)

if x:
  print("YES! We have a match!")
else:
  print("No match")
```

RegEx Functions:

Findall():
The findall() function returns a list containing all matches:

```
import re
```

```
txt = "The rain in Spain"
x = re.findall("ai", txt)
print(x)
```

RegEx Functions:

search():
Search for the first white-space character in the string:

```python
import re
```

```python
txt = "The rain in Spain"
x = re.search("\s", txt)
```

```python
print("The first white-space character is located in
position:", x.start())
```

RegEx Functions:

split():
Split at each white-space character:

```python
import re
```

```python
txt = "The rain in Spain"
x = re.split("\s", txt)
print(x)
```

Questions ?
Pleas ask questions…
Please do…