```python
regex module.py > ...
  1    import re
  2    txt = "The rain in spain"
  3    x= re.search("^The spain$",txt)
  4
  5    if x:
  6        print("YES! We have a match!")
  7    else:
  8        print("No match")
  9
 10
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\HP\Desktop\Bala> & C:/Users/HP/AppData/Local/Programs/Python/Pyth
Traceback (most recent call last):
    x= re.search("^The spain$",txt)
       ^^
NameError: name 're' is not defined. Did you forget to import 're'?
No match

```python
import re
text = "The cat sat on the mat. The dog barked at the cat. Cats and
# Find occurrences of "cat" or "dog" (case-insensitive)
matches = re.findall(r"(cat|dog)", text, re.IGNORECASE)
print("Occurrences of 'cat' or 'dog':", matches)

# Find 3-letter words starting with "c" (case-sensitive)
three_letter_words = re.findall(r"\b\wc\w\b", text)
print("3-letter words starting with 'c':", three_letter_words)
```

```
 C:\Users\HP\Desktop\Bala> & C:/Users/HP/AppData/Local/Programs/Python/Python
aceback (most recent call last):
   x= re.search("^The spain$",txt)
       ^^
meError: name 're' is not defined. Did you forget to import 're'?
 match
 C:\Users\HP\Desktop\Bala> & C:/Users/HP/AppData/Local/Programs/Python/Python

 C:\Users\HP\Desktop\Bala> & C:/Users/HP/AppData/Local/Programs/Python/Python
currences of 'cat' or 'dog': ['cat', 'dog', 'cat', 'Cat', 'dog']
letter words starting with 'c': []
 C:\Users\HP\Desktop\Bala> & C:/Users/HP/AppData/Local/Programs/Python/Python
```

```python
import re
text = "The cat sat on the mat. The dog barked at the cat. Cats and dogs live in harmony."
x = re.search("\s", text)
print("the first white-space character is located in position:",x.start())
```

```python
import re
text = "The cat sat on the mat. The dog barked at the cat. Cats and dogs live in harmony."
x = re.split("\s", text)
print("the first white-space character is located in position:",x)
print()
```

```python
import re
text = "Contact us at support@example.com, sales@company.org, or admin@website.net. For more information, visit www.example.com."
x = re.search(r"\bS\w+",text)
print(x.span())
```

```python
import re
text = "The cat sat on the mat. The dog barked at the cat. Cats and dogs live in harmony."
x = re.split("\s", text)
print("the first white-space character is located in position:",x)
print()
```