Regex Questions

For each example below find a single regex expression that will extract or find all instances of the pattern

Show that it works in each case, with no false detections

```
In [1]:  import re
```

Problem 1

Using the text below, extract all e-mail addresses from the three lines of text

```
In [14]:  text = "Contact us at support@example.com or sales@company.net."
          text2 ="Heat @ 200 C for 3 minutes"
          text3="We we purchaes 200 units@ $40 each,  let me know at if that works, I'

          regex = "[A-Za-z0-9]+@[A-Za-z]+\.[A-Za-z]{3}"
          re.findall(regex, text)
```

```
Out[14]:  ['support@example.com', 'sales@company.net']
```

```
In [15]:  re.findall(regex, text2)
```

```
Out[15]:  []
```

```
In [16]:  re.findall(regex, text3)
```

```
Out[16]:  ['SmithW@dubious.com']
```

Problem 2

Extract years in Month/Day/Year format

dashes or slashes should be okay

```
In [24]:  text="The event will be held on 10-27-2023."
          text2="Today is 7/24/2025"
          text3="The part number is 123-1-3785"

          date_regex = "\d{1,2}[-/]\d{2}[-/]\d{4}"
          re.findall(date_regex, text)
```

```
Out[24]:  ['10-27-2023']
```

```
In [25]:  re.findall(date_regex, text2)
```

```
Out[25]:    ['7/24/2025']
```

```
In [26]:    re.findall(date_regex, text3)
```

```
Out[26]:    []
```

Problem 3

Find the string that starts with an upper or lower case A (or a)

```
In [34]:    text="Bob is out sick today"
            text2="again, Bob is out sick"
            text3="Aargh, we will be short-handed for the dinner rush"
            case_regex = "^[Aa].*"
            re.findall(case_regex, text)
```

```
Out[34]:    []
```

```
In [35]:    re.findall(case_regex, text2)
```

```
Out[35]:    ['again, Bob is out sick']
```

```
In [36]:    re.findall(case_regex, text3)
```

```
Out[36]:    ['Aargh, we will be short-handed for the dinner rush']
```

Problem 4

Write a single regex operation that removes all the excess spaces from the text below

```
In [56]:    text="   Hello    Delaware   !!"
            text2="Were is  Bob?"
            text3=" How   did we get      here"

            remove_regex = '\s{2,}'
            re.sub(remove_regex,' ', text).strip()
```

```
Out[56]:    'Hello Delaware !!'
```

```
In [57]:    re.sub(remove_regex,' ', text2).strip()
```

```
Out[57]:    'Were is Bob?'
```

```
In [58]:    re.sub(remove_regex,' ', text3).strip()
```

```
Out[58]:    'How did we get here'
```

Problem 5

localhost:8907/lab/tree/Documents/DSE_5002/Module_05/Lab/Regex_Problem_Set_1.ipynb?

2/3

Extract the full web address

In [63]:
```python
text="check out the website at https://WiggleWare.com"
text2="The reference site is http://lotsa_bugs.edu"

web_regex = "http[s]?://[a-zA-z]+\.[A-Za-z]{3}"
re.findall(web_regex, text)
```

Out[63]: ['https://WiggleWare.com']

In [64]:
```python
re.findall(web_regex, text2)
```

Out[64]: ['http://lotsa_bugs.edu']

In [ ]: