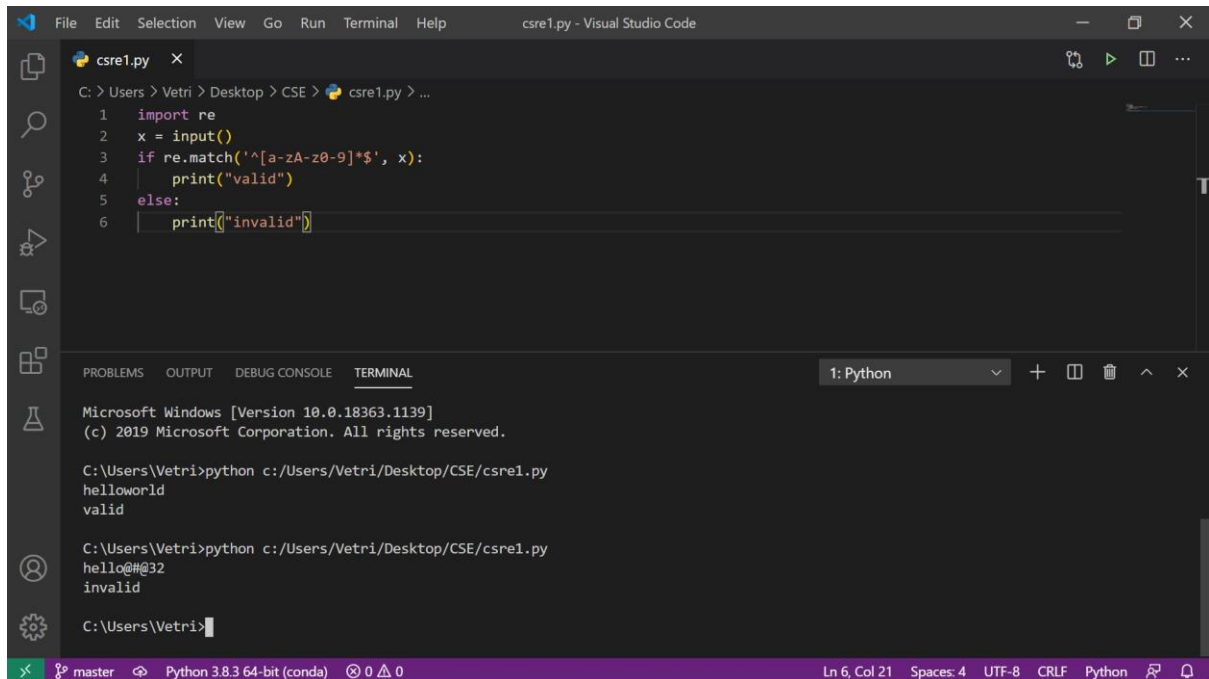


1. Write a Python program to check that a string contains only a certain set of characters (in this case a-z, A-Z and 0-9)



```
File Edit Selection View Go Run Terminal Help csre1.py - Visual Studio Code

csre1.py x
C:\Users\Vetri\Desktop> CSE > csre1.py > ...
1 import re
2 x = input()
3 if re.match('[a-zA-Z0-9]*$', x):
4     print("valid")
5 else:
6     print("invalid")

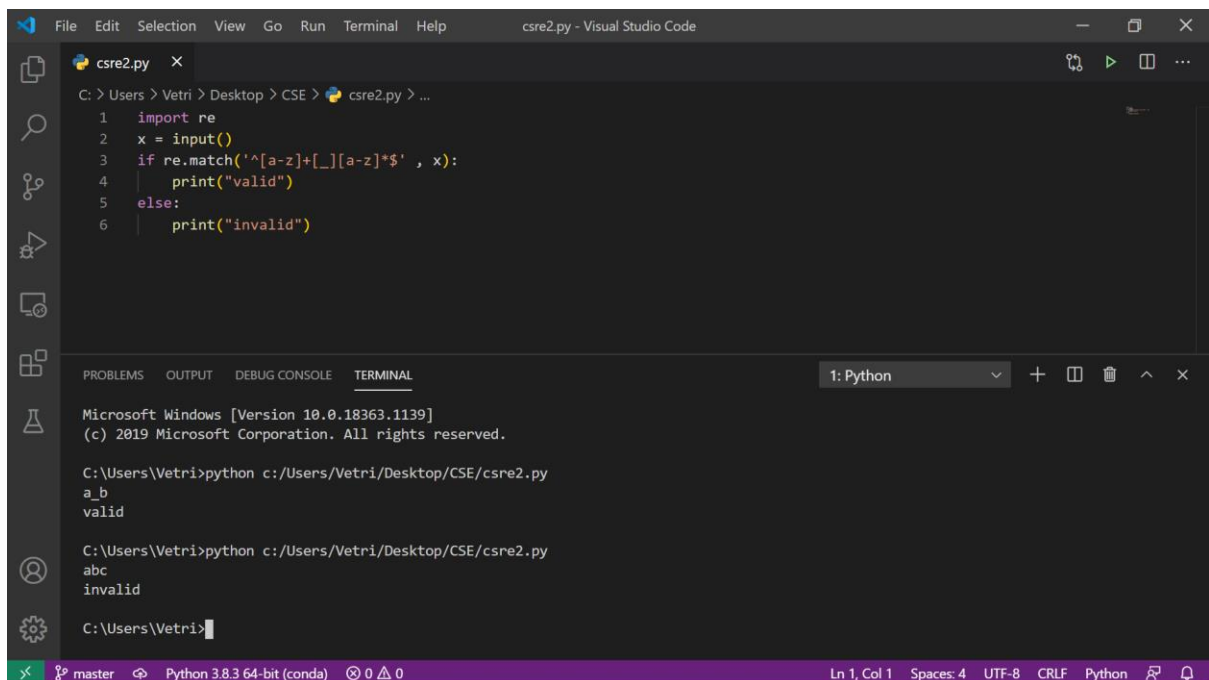
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre1.py
helloworld
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre1.py
hello#@32
invalid

C:\Users\Vetri>
```

2. Write a Python program to find sequences of lowercase letters joined with an underscore.



```
File Edit Selection View Go Run Terminal Help csre2.py - Visual Studio Code

csre2.py x
C:\Users\Vetri\Desktop> CSE > csre2.py > ...
1 import re
2 x = input()
3 if re.match('[a-z]+_[a-z]*$', x):
4     print("valid")
5 else:
6     print("invalid")

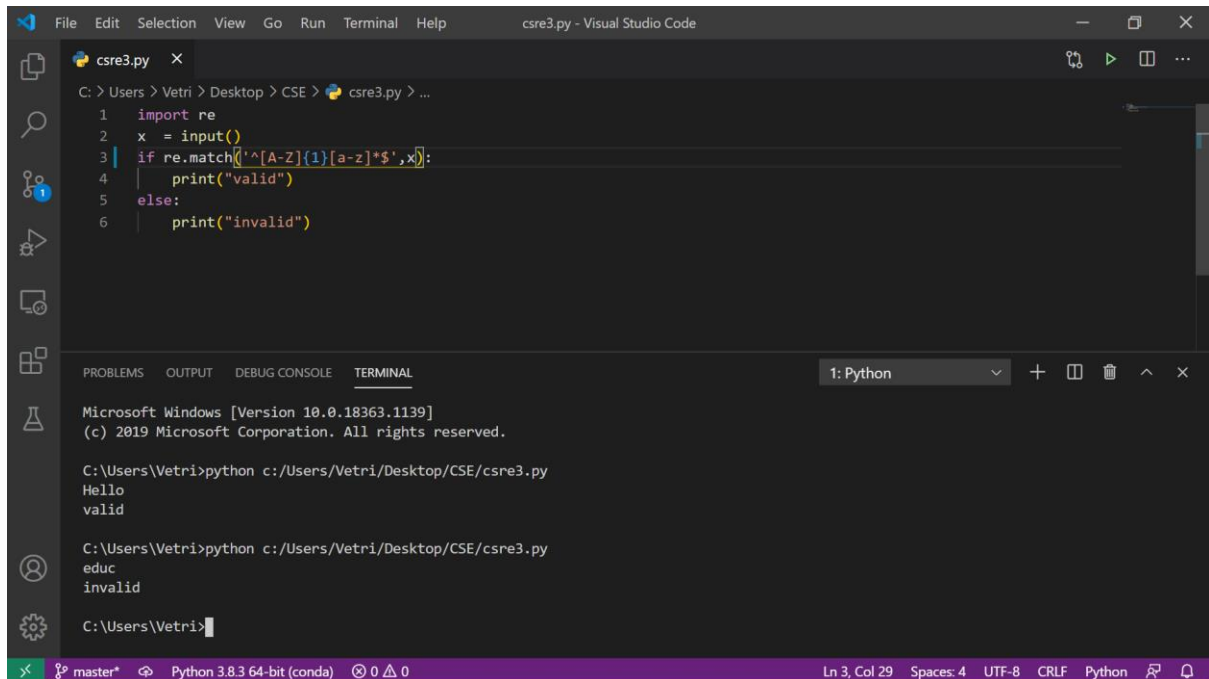
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre2.py
a_b
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre2.py
abc
invalid

C:\Users\Vetri>
```

3. Write a Python program to find the sequences of one upper case letter followed by lower case letters



```
File Edit Selection View Go Run Terminal Help csre3.py - Visual Studio Code

csre3.py
1 import re
2 x = input()
3 if re.match('[A-Z][a-z]*$', x):
4     print("valid")
5 else:
6     print("invalid")

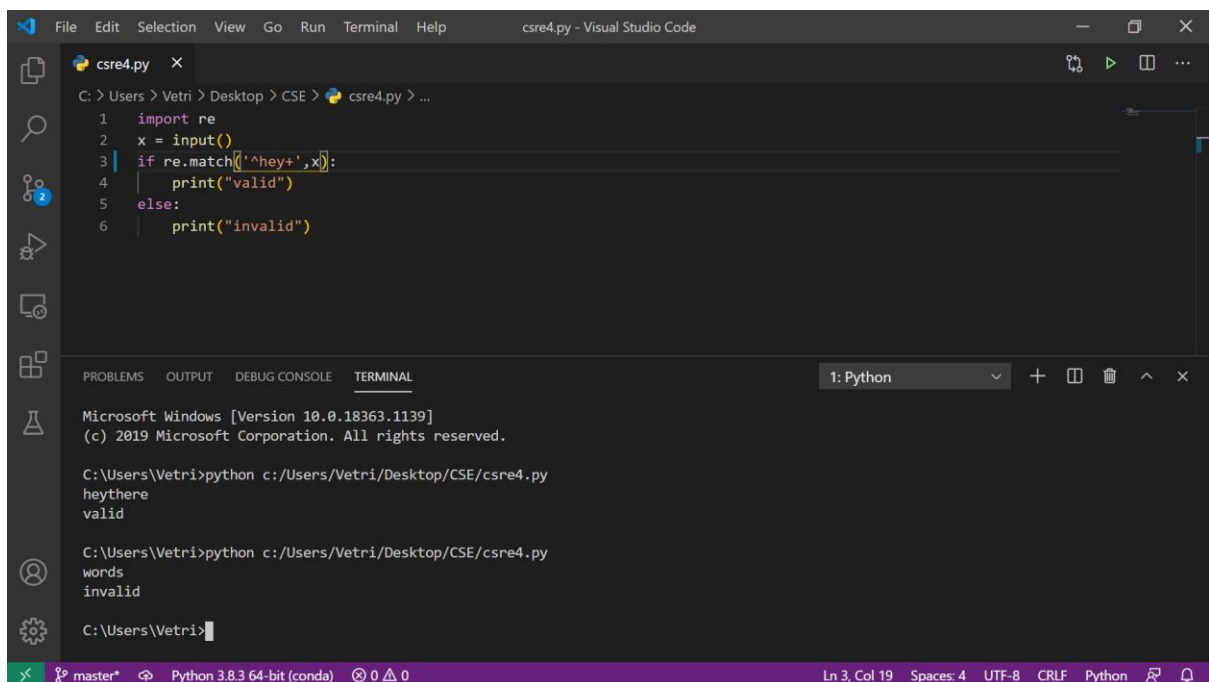
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre3.py
Hello
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre3.py
educ
invalid

C:\Users\Vetri>
```

4. write a python program that matches a word at the beginning of the string



```
File Edit Selection View Go Run Terminal Help csre4.py - Visual Studio Code

csre4.py
1 import re
2 x = input()
3 if re.match('hey+', x):
4     print("valid")
5 else:
6     print("invalid")

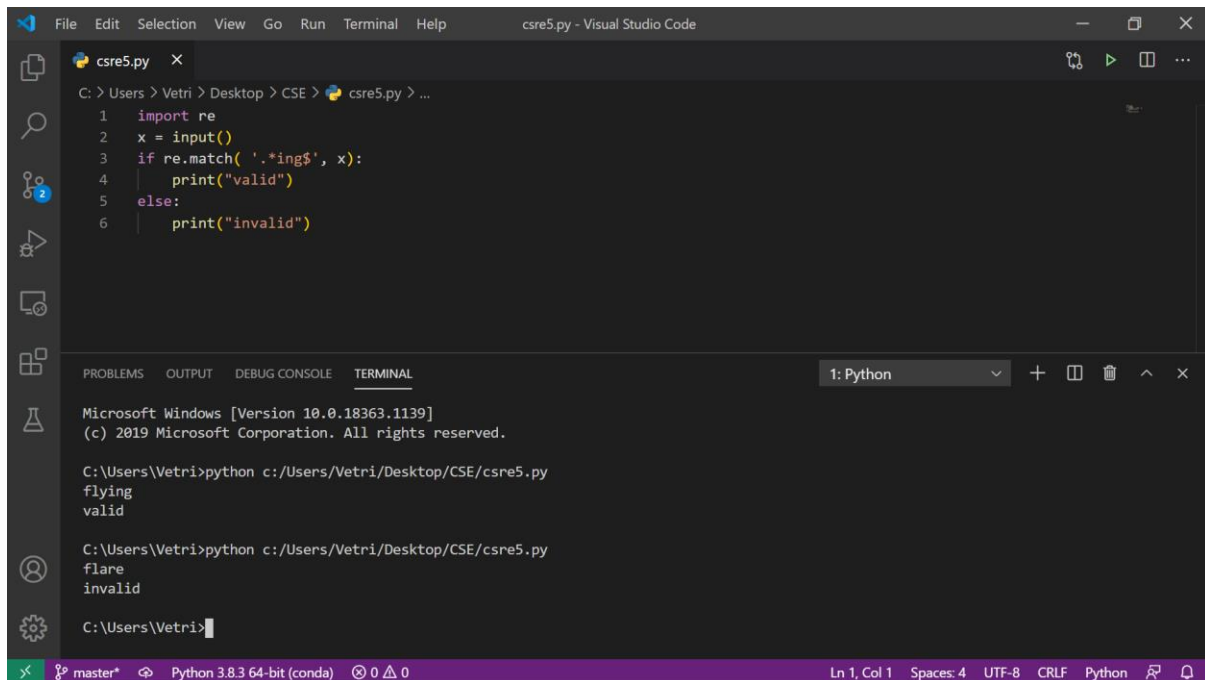
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre4.py
heythere
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre4.py
words
invalid

C:\Users\Vetri>
```

5. Write a Python program that matches a word at the end of string, with optional punctuation



```
File Edit Selection View Go Run Terminal Help csre5.py - Visual Studio Code

csre5.py x
C: > Users > Vetri > Desktop > CSE > csre5.py > ...
1 import re
2 x = input()
3 if re.match('.*ing$', x):
4     print("valid")
5 else:
6     print("invalid")

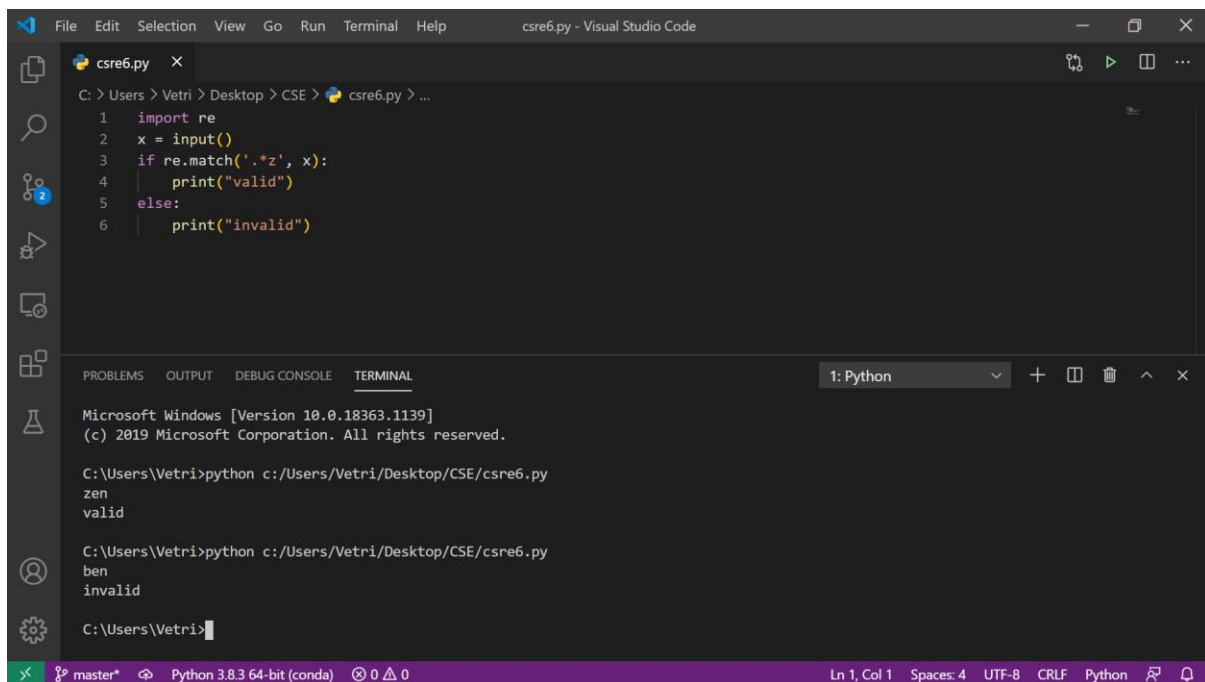
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre5.py
flying
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre5.py
flare
invalid

C:\Users\Vetri>
```

6. Write a Python program that matches a word containing 'z'.



```
File Edit Selection View Go Run Terminal Help csre6.py - Visual Studio Code

csre6.py x
C: > Users > Vetri > Desktop > CSE > csre6.py > ...
1 import re
2 x = input()
3 if re.match('.*z', x):
4     print("valid")
5 else:
6     print("invalid")

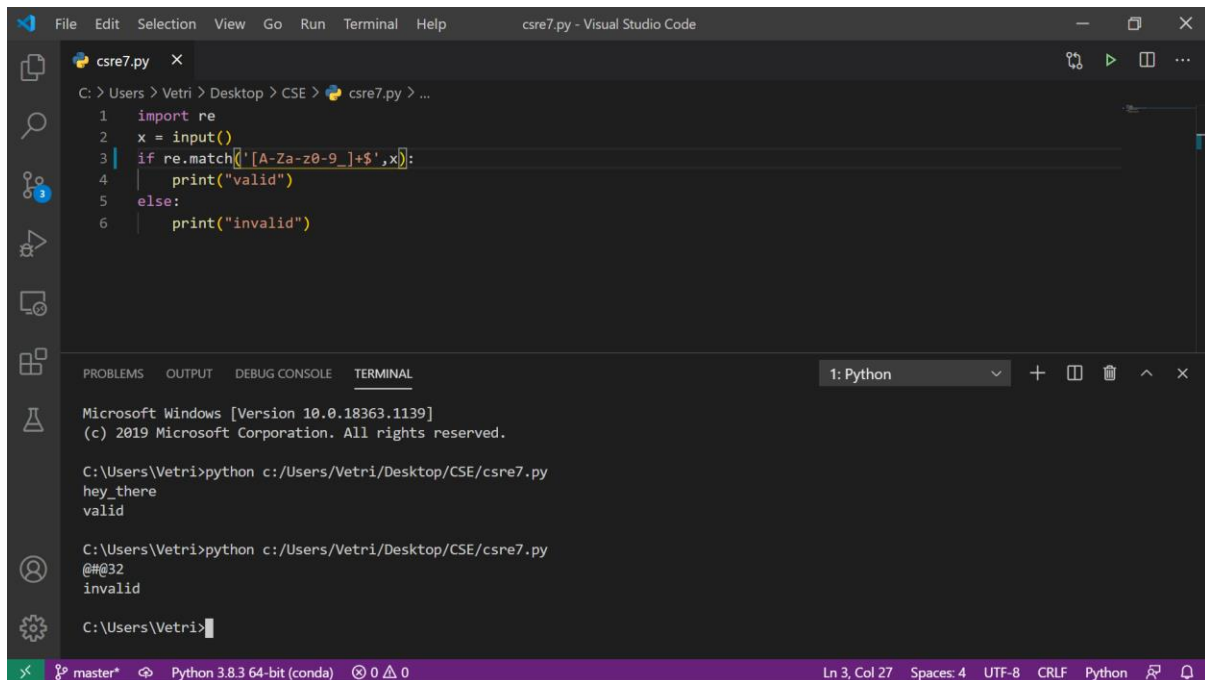
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre6.py
zen
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre6.py
ben
invalid

C:\Users\Vetri>
```

7. Write a Python program to match a string that contains only upper and lowercase letters, numbers, and underscores



```
File Edit Selection View Go Run Terminal Help csre7.py - Visual Studio Code

csre7.py x
C: > Users > Vetri > Desktop > CSE > csre7.py > ...
1 import re
2 x = input()
3 if re.match('[A-Za-z0-9_]+$', x):
4     print("valid")
5 else:
6     print("invalid")

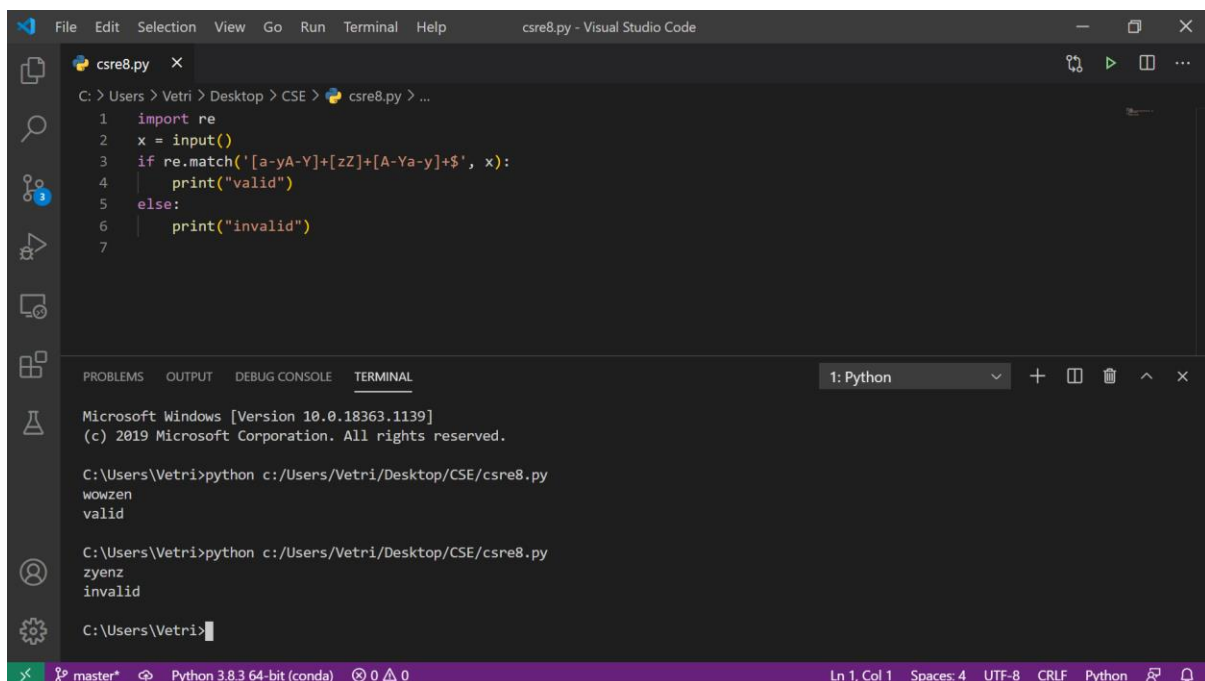
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre7.py
hey there
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre7.py
@#@32
invalid

C:\Users\Vetri>
```

8. Write a Python program that matches a word containing 'z', not at the start or end of the word



```
File Edit Selection View Go Run Terminal Help csre8.py - Visual Studio Code

csre8.py x
C: > Users > Vetri > Desktop > CSE > csre8.py > ...
1 import re
2 x = input()
3 if re.match('[a-zA-Y]+[zZ]+[A-Za-y]+$', x):
4     print("valid")
5 else:
6     print("invalid")
7

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python
Microsoft Windows [Version 10.0.18363.1139]
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C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre8.py
wowzen
valid

C:\Users\Vetri>python c:/Users/Vetri/Desktop/CSE/csre8.py
zyenz
invalid

C:\Users\Vetri>
```