

## 1. Is Word Guessed

The screenshot shows the Spyder Python IDE with the file `isWordGuessed.py` open. The code defines a function `isWordGuessed` that takes `secretWord` and `lettersGuessed` as arguments and returns `True` if the word is guessed, otherwise `False`.

```
1 def isWordGuessed(secretWord, lettersGuessed):
2     for char in secretWord:
3         if char in lettersGuessed:
4             return True
5     return False
```

The Python console shows the following interactions:

```
In [44]: isWordGuessed("apple",["k","l","q"])
Out[44]: False

In [45]: isWordGuessed("apple",["p","l","a","e"])
Out[45]: True

In [46]:
```

The Variable explorer shows a variable `s` of type `str` with value `Advanced Programming`. The History log shows the execution of the `isWordGuessed` function with various inputs.

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 4 Column: 21 Memory: 42 %

## 2. Get Guessed Word

The screenshot shows the Spyder Python IDE with the file `getGuessedWord.py` open. The code defines a function `getGuessedWord` that takes `secretWord` and `lettersGuessed` as arguments and returns the word with guessed letters filled in.

```
1 #- coding: utf-8 -#
2 """
3 Created on Tue Nov 12 18:21:48 2019
4
5 @author: aleah cute
6 """
7
8 def getGuessedWord(secretWord, lettersGuessed):
9     letter = ''
10    for char in secretWord:
11        if char in lettersGuessed:
12            letter += char
13        else:
14            letter += '_'
15    return letter
```

The Python console shows the following interaction:

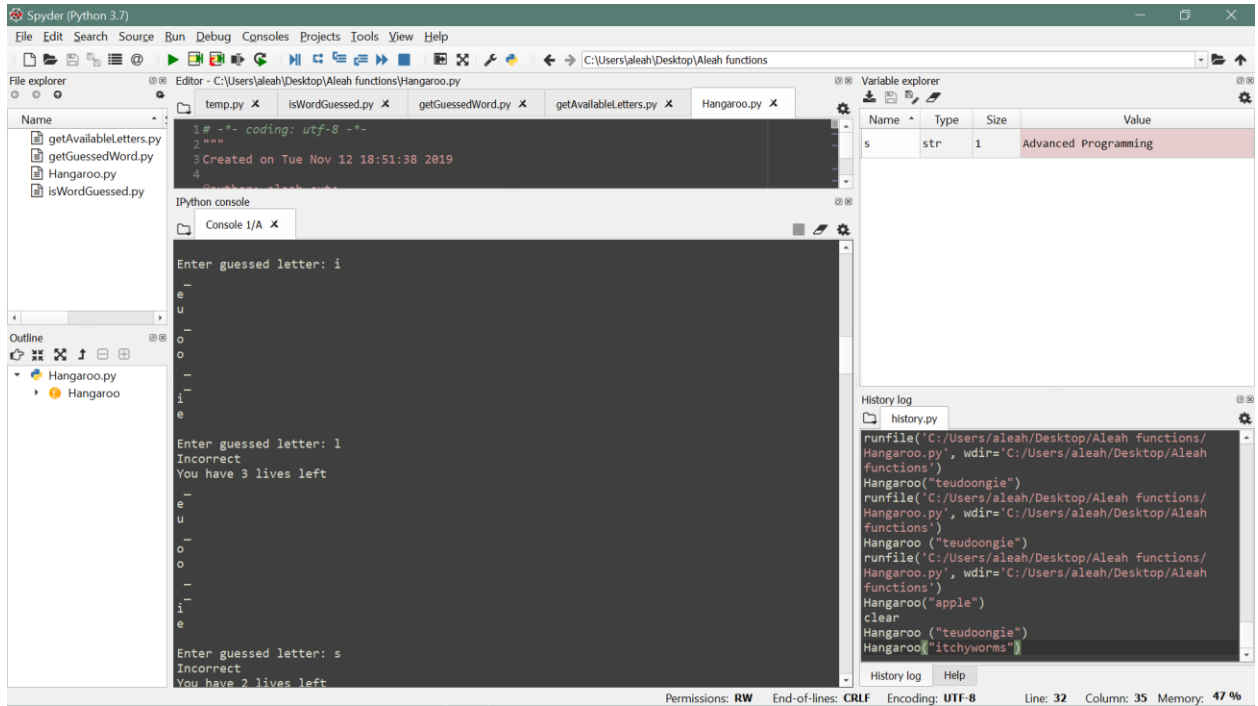
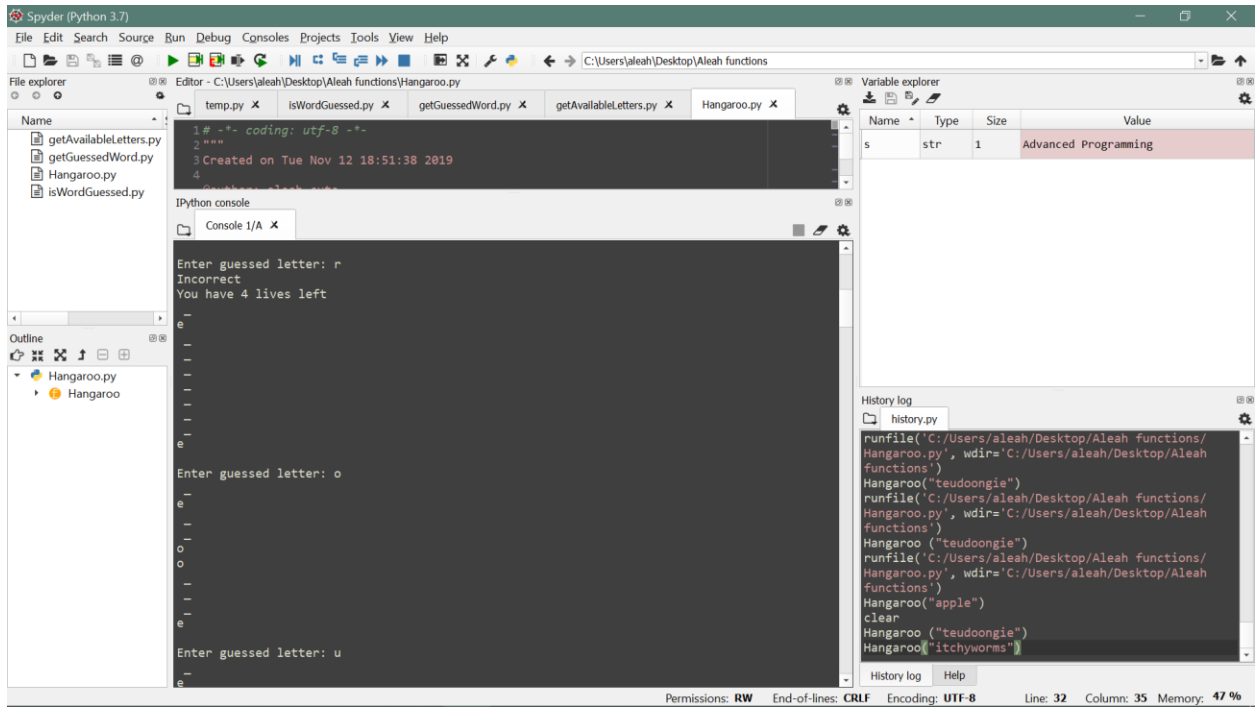
```
In [65]: getGuessedWord("aleah",["l","h"])
Out[65]: '_l_h'

In [66]:
```

The Variable explorer shows a variable `s` of type `str` with value `Advanced Programming`. The History log shows the execution of the `getGuessedWord` function with various inputs.

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 9 Column: 16 Memory: 44 %

#### 4. Hangaroo



Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

File explorer: temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

Editor: C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

Variable explorer:

| Name | Type | Size | Value                |
|------|------|------|----------------------|
| s    | str  | 1    | Advanced Programming |

IPython console:

```
Enter guessed letter: s
Incorrect
You have 2 lives left
-
e
u
-
o
-
i
-
e

Enter guessed letter: b
Incorrect
You have 1 lives left
-
e
u
-
o
-
i
-
e

Enter guessed letter: n
```

History log:

```
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdi='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdi='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdi='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("apple")
clear
Hangaroo("teudoongie")
Hangaroo("itchyworms")
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 32 Column: 35 Memory: 47 %

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

File explorer: temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

Editor: C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

Variable explorer:

| Name | Type | Size | Value                |
|------|------|------|----------------------|
| s    | str  | 1    | Advanced Programming |

IPython console:

```
You have 1 lives left
-
e
u
-
o
-
i
-
e

Enter guessed letter: n
-
e
u
-
o
n
-
i
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e

Enter guessed letter: h
Incorrect
You have 0 lives left
You killed Hangaroo.
The word is teudoongie
```

History log:

```
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdi='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdi='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdi='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("apple")
clear
Hangaroo("teudoongie")
Hangaroo("itchyworms")
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 32 Column: 35 Memory: 47 %

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

Editor - C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

File explorer

Name

- getAvailableLetters.py
- getGuessedWord.py
- Hangaroo.py
- isWordGuessed.py

Outline

- Hangaroo.py
  - Hangaroo

IPython console

Console I/A x

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Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

File explorer: temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

Editor: C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

Variable explorer:

| Name | Type | Size | Value                |
|------|------|------|----------------------|
| s    | str  | 1    | Advanced Programming |

History log:

```
runfile('C:/Users/aleah/Desktop/Aleah functions/Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah functions')
Hangaroo("apple")
clear
Hangaroo("teudoongie")
Hangaroo("itchyworms")
```

IPython console:

```
Enter guessed letter: t
i
t
c
h
-
o
-
-
-
Enter guessed letter: w
i
t
c
h
-
w
o
-
-
-
Enter guessed letter: l
Incorrect
You have 4 lives left
1
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 32 Column: 35 Memory: 48 %

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

File explorer: temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

Editor: C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

Variable explorer:

| Name | Type | Size | Value                |
|------|------|------|----------------------|
| s    | str  | 1    | Advanced Programming |

History log:

```
runfile('C:/Users/aleah/Desktop/Aleah functions/Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah functions')
Hangaroo("apple")
clear
Hangaroo("teudoongie")
Hangaroo("itchyworms")
```

IPython console:

```
Enter guessed letter: r
i
t
c
h
-
w
o
r
-
-
-
Enter guessed letter: m
i
t
c
h
-
w
o
r
m
-
-
-
Enter guessed letter: g
Incorrect
You have 3 lives left
1
t
c
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 32 Column: 35 Memory: 47 %

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

File explorer

Editor - C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

Name

- getAvailableLetters.py
- getGuessedWord.py
- Hangaroo.py
- isWordGuessed.py

Outline

- Hangaroo.py
  - Hangaroo

IPython console

Console I/A x

```
Enter guessed letter: y
i
t
c
h
y
w
o
r
m
-
Enter guessed letter: f
Incorrect
You have 2 lives left
i
t
c
h
y
w
o
r
m
-
Enter guessed letter: s
i
t
```

Variable explorer

| Name | Type | Size | Value                |
|------|------|------|----------------------|
| s    | str  | 1    | Advanced Programming |

History log

history.py

```
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah
functions')
Hangaroo("apple")
clear
Hangaroo("teudoongie")
Hangaroo("itchyworms")
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 32 Column: 35 Memory: 48 %

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

File explorer

Editor - C:\Users\aleah\Desktop\Aleah functions\Hangaroo.py

temp.py x IsWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py x

Name

- getAvailableLetters.py
- getGuessedWord.py
- Hangaroo.py
- isWordGuessed.py

Outline

- Hangaroo.py
  - Hangaroo

IPython console

Console I/A x

```
h
y
w
o
r
m
-
Enter guessed letter: s
i
t
c
h
y
w
o
r
m
s
Congratulations! You saved Hangaroo.
In [151]:
```

Variable explorer

| Name | Type | Size | Value                |
|------|------|------|----------------------|
| s    | str  | 1    | Advanced Programming |

History log

history.py

```
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah
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Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah
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Hangaroo("teudoongie")
runfile('C:/Users/aleah/Desktop/Aleah functions/
Hangaroo.py', wdir='C:/Users/aleah/Desktop/Aleah
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Hangaroo("apple")
clear
Hangaroo("teudoongie")
Hangaroo("itchyworms")
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 32 Column: 35 Memory: 48 %