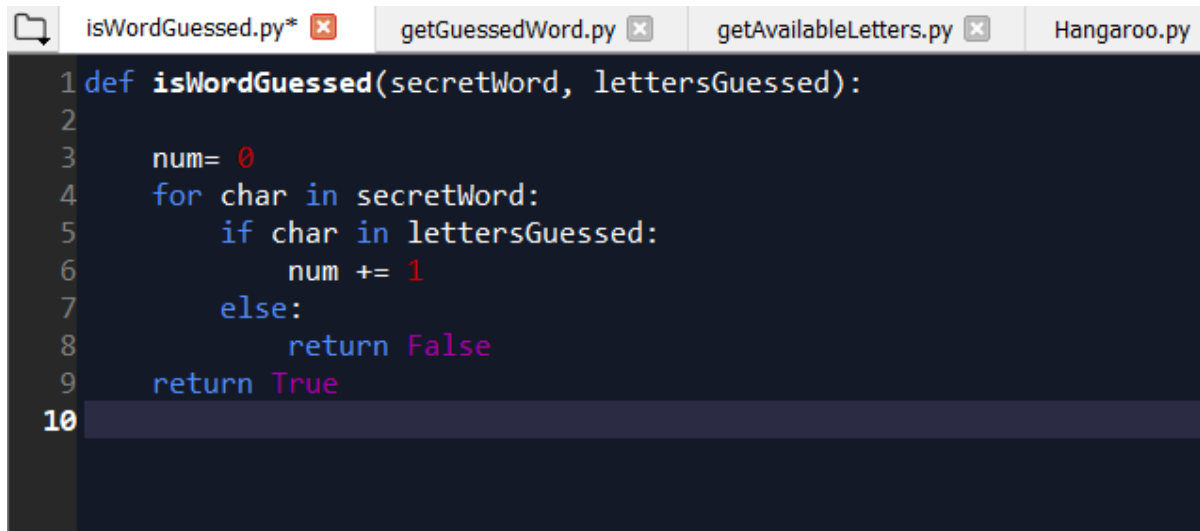
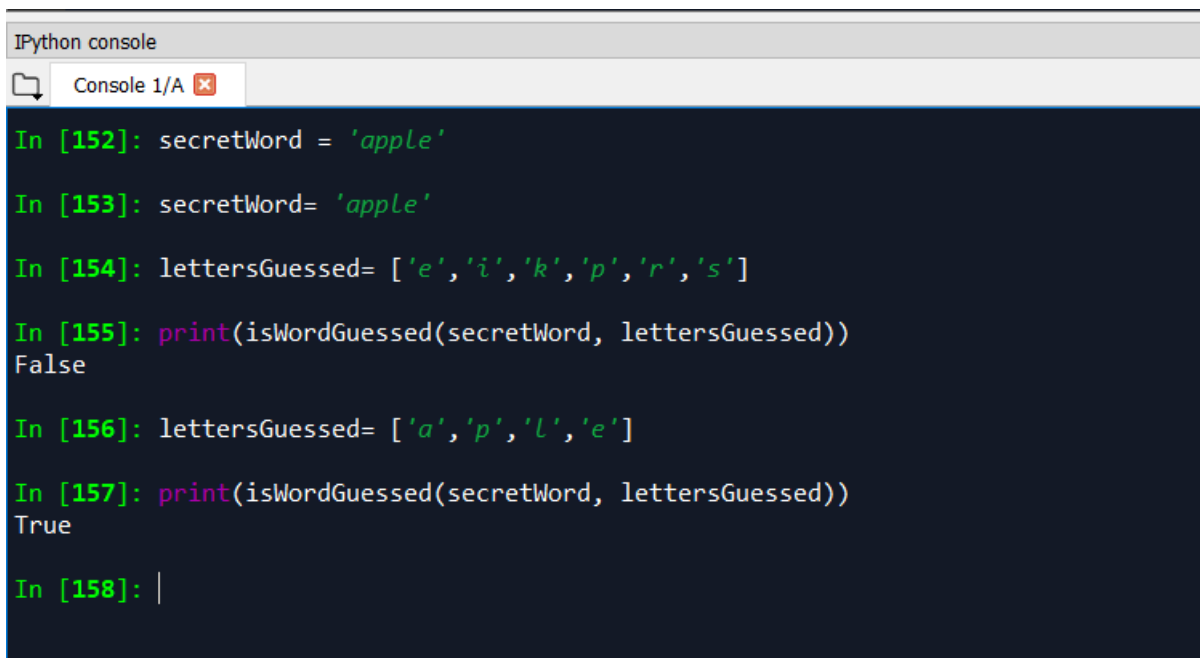


Problem 1: isWordGuessed



```
isWordGuessed.py* x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py (
1 def isWordGuessed(secretWord, lettersGuessed):
2
3     num= 0
4     for char in secretWord:
5         if char in lettersGuessed:
6             num += 1
7         else:
8             return False
9     return True
10
```

Editor Window



```
IPython console
Console 1/A x
In [152]: secretWord = 'apple'
In [153]: secretWord= 'apple'
In [154]: lettersGuessed= ['e','i','k','p','r','s']
In [155]: print(isWordGuessed(secretWord, lettersGuessed))
False
In [156]: lettersGuessed= ['a','p','l','e']
In [157]: print(isWordGuessed(secretWord, lettersGuessed))
True
In [158]: |
```

Python Console

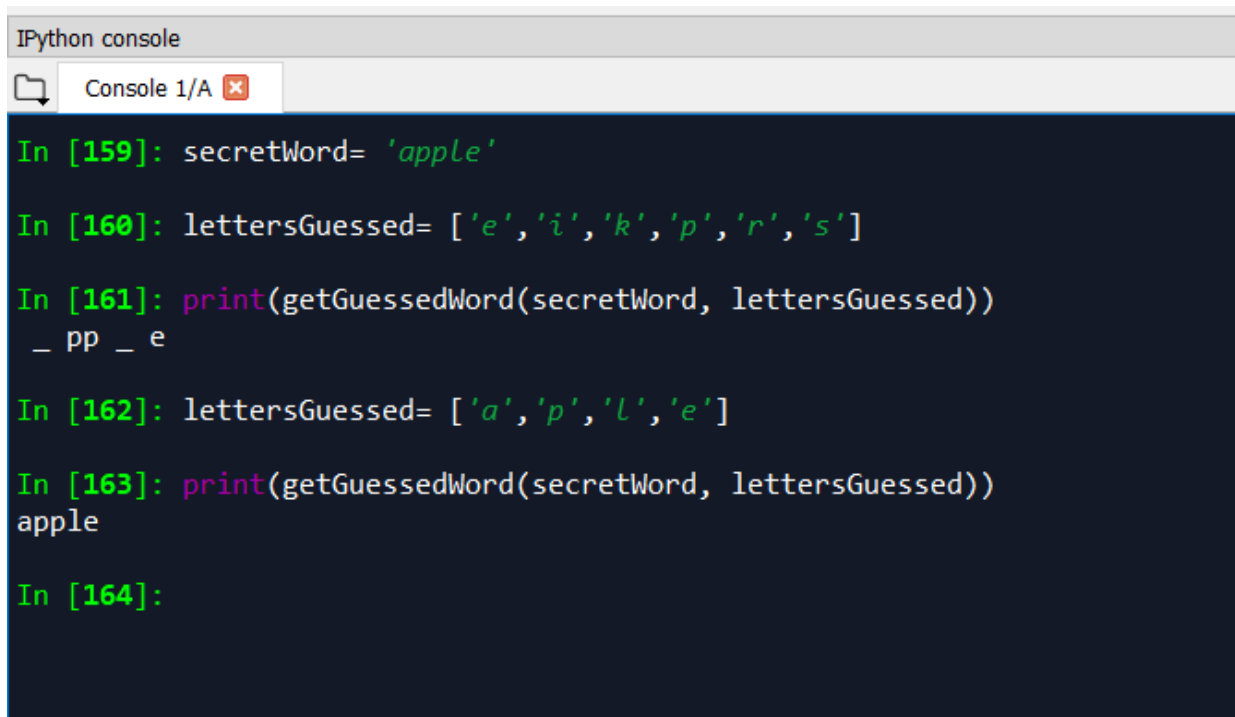
Problem 2: getGuessedWord



The screenshot shows a code editor with four tabs: `isWordGuessed.py*`, `getGuessedWord.py`, `getAvailableLetters.py`, and `Hangaroo.py`. The `getGuessedWord.py` tab is active, displaying the following Python code:

```
1 def getGuessedWord(secretWord, lettersGuessed):
2
3     guess= ''
4     for char in secretWord:
5         if char in lettersGuessed:
6             guess= guess + char
7         else:
8             guess= guess + ' _ '
9     return guess
10
```

Editor Window



The screenshot shows an IPython console window with a tab labeled `Console 1/A`. It contains the following interactive sessions:

```
In [159]: secretWord= 'apple'

In [160]: lettersGuessed= ['e','i','k','p','r','s']

In [161]: print(getGuessedWord(secretWord, lettersGuessed))
_ pp _ e

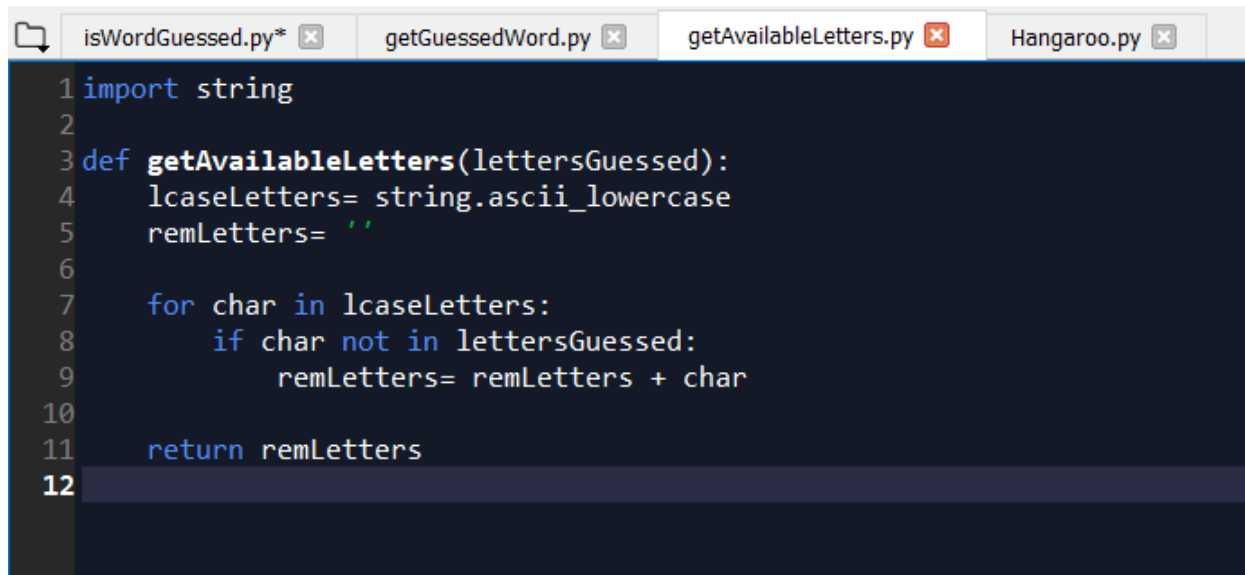
In [162]: lettersGuessed= ['a','p','l','e']

In [163]: print(getGuessedWord(secretWord, lettersGuessed))
apple

In [164]:
```

Python Console

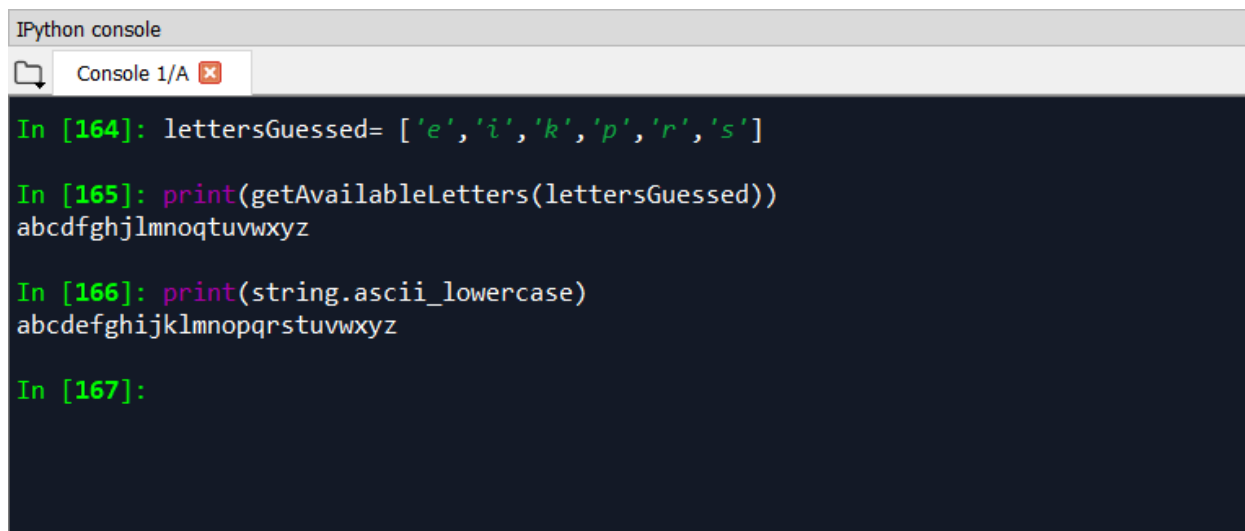
Problem 3: getAvailableLetters



The screenshot shows a code editor with four tabs: `isWordGuessed.py*`, `getGuessedWord.py`, `getAvailableLetters.py`, and `Hangaroo.py`. The `getAvailableLetters.py` tab is active, displaying the following Python code:

```
1 import string
2
3 def getAvailableLetters(lettersGuessed):
4     lcaseLetters= string.ascii_lowercase
5     remLetters= ''
6
7     for char in lcaseLetters:
8         if char not in lettersGuessed:
9             remLetters= remLetters + char
10
11     return remLetters
12
```

Editor Window



The screenshot shows a Python console window titled "IPython console" with a tab labeled "Console 1/A". It contains the following input and output:

```
In [164]: lettersGuessed= ['e', 'i', 'k', 'p', 'r', 's']

In [165]: print(getAvailableLetters(lettersGuessed))
abdcfghjlmnoqtuvwxyz

In [166]: print(string.ascii_lowercase)
abcdefghijklmnopqrstuvwxyz

In [167]:
```

Python Console

Problem 4: Hangaroo Game

```
isWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py* x
1 import random
2 words= ["tiger", "dog", "cat", "laptop", "phone", "basket", "days", "ball", "yellow",]
3
4 def Hangaroo(secretWord):
5     turns= 10
6     lettersGuessed= []
7
8     name= input(str("Enter your name: "))
9     name= str(name)
10    print("Let's play some Hangman!", name)
11    print("Your word is ", len(secretWord), " Letters Long. \n" )
12
13    while turns > 0:
14        if isWordGuessed(secretWord, lettersGuessed):
15            return print("You got the word! Congrats \ (^o^ )")
16
17        print(turns, "tries left.")
18        print("Remaining Letters: \n" + getAvailableLetters(lettersGuessed))
```

Editor Window 1

```
isWordGuessed.py x getGuessedWord.py x getAvailableLetters.py x Hangaroo.py* x
17    print(turns, "tries left.")
18    print("Remaining Letters: \n" + getAvailableLetters(lettersGuessed))
19
20    guess= input("Please guess a letter: ")
21    guess= str(guess)
22    guess= guess.lower()
23
24    if guess not in lettersGuessed:
25        lettersGuessed.append(guess)
26        if guess in secretWord:
27            print("Wow, you're too good at this T_T: \n" + getGuessedWord(secretWord, lettersGuessed), "\n")
28        else:
29            print("Wrong Letter!  _\(_\)/_/: \n" + getGuessedWord(secretWord, lettersGuessed), "\n")
30            turns -= 1
31        else:
32            print("C'mon, choose another letter (_\(_\)/_): \n" + getGuessedWord(secretWord, lettersGuessed), "\n")
33
34    return print("You Lose. The word was " + str(secretWord), "\n Better Luck next time!")
35
36 Hangaroo(random.choice(words))
37
38 #run(F5) the program to randomize the word
```

Editor Window 2

```
IPython console
Console 1/A
Enter your name: Jm
Let's play some Hangman! Jm
Your word is 4 letters long.

10 tries left.
Remaining Letters:
abcdefghijklmnopqrstuvwxyz

Please guess a letter: a
Wow, you're too good at this T_T:
_ a _ _

10 tries left.
Remaining Letters:
bcdefghijklmnopqrstuvwxyz

Please guess a letter: b
Wow, you're too good at this T_T:
ba _ _

10 tries left.
Remaining Letters:
cdefghijklmnopqrstuvwxyz

Please guess a letter: e
Wrong letter! `\_(\_)/` :
ba _ _

9 tries left.
Remaining Letters:
cdfghijklmnopqrstuvwxyz

Please guess a letter: e
C'mon, choose another letter (`_>`):
ba _ _
```

Python Console 1

```
9 tries left.
Remaining Letters:
cdfghijklmnopqrstuvwxyz

Please guess a letter: e
C'mon, choose another letter (`_>`):
ba _ _

9 tries left.
Remaining Letters:
cdfghijklmnopqrstuvwxyz

Please guess a letter: l
Wow, you're too good at this T_T:
ball

You got the word! Congrats `(^o^)/`

In [170]: |
```

Python Console 2

```
Please guess a letter: h
Wrong letter! "\_(ツ)_/" :
ca _

1 tries left.
Remaining Letters:
bijklmnopqrtuvy

Please guess a letter: j
Wrong letter! "\_(ツ)_/" :
ca _

You lose. The word was cat
Better luck next time!

In [171]: |
```

Python Console (Lose Game)