```
File Edit Format Run Options Window Help

# Create three variables of different types
integer_var = 10
float_var = 5.51
string_var = "Myself Md Aminul Islam Sayem!"

# Print the original variables
print("Integer variable:", integer_var)
print("Float variable:", float_var)
print("String variable:", string_var)

# Combine the variables into a single string
combined_string = f"Integer: {integer_var}, Float: {float_var}, String_var}''

# Print the combined string
print("Combined String:", combined_string)
```

```
File Edit Shell 3.9.13

File Edit Shell Debug Options Window Help

Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

========= RESTART: S:\Virtual Internship\Task-2\practice_probleml.py =======

Integer variable: 10

Float variable: 5.51

String variable: Myself Md Aminul Islam Sayem!

Combined String: Integer: 10, Float: 5.51, String: 'Myself Md Aminul Islam Sayem!'

>>>
```

```
practice_problem_1_2.py - S:/Virtual Internship/Task-2/practice_problem_1_2.py (3.9.13)

File Edit Format Run Options Window Help

# Define the list
numbers = [10, 0, 55, 88, 100, -56, 80]

# Initialize a variable to store the largest number
largest = numbers[0] # Start with the first number in the list

# Iterate through the list to find the largest number
for number in numbers:
    if number > largest:
        largest = number

# Print the largest number

print("The largest number in the list is:", largest)
```

IDLE Shell 3.9.13


```
practice_problem_1_4.py - S:/Virtual Internship/Task-2/practice_problem_1_4.py (3.9.13)

File Edit Format Run Options Window Help

# Define the sample list of strings
string_list = ['abc', 'xyz', 'aba', '1221']

# Initialize a variable to count matching strings
count = 0

# Iterate through the list of strings
for s in string_list:
    # Check if the string has a length of 2 or more and the first and last characters are the sam
    if len(s) >= 2 and s[0] == s[-1]:
        count += 1

# Print the count of matching strings
print("Number of strings meeting the criteria:", count)
```

iDLE Shell 3.9.13

```
practice_problem_1_5.py - S:/Virtual Internship/Task-2/practice_problem_1_5.py (3.9.13)
\underline{\mathsf{F}}\mathsf{ile} \quad \underline{\mathsf{E}}\mathsf{dit} \quad \mathsf{F}\underline{\mathsf{o}}\mathsf{rmat} \quad \underline{\mathsf{R}}\mathsf{un} \quad \underline{\mathsf{O}}\mathsf{ptions} \quad \underline{\mathsf{W}}\mathsf{indow} \quad \underline{\mathsf{H}}\mathsf{elp}
def count_upper_lower(string):
      # Initialize variables to count uppercase and lowercase letters
     upper count = 0
     lower_count = 0
      # Iterate through each character in the input string
     for char in string:
           if char.isupper():
                upper count += 1
           elif char.islower():
                lower_count += 1
      # Return the counts as a tuple
     return upper_count, lower_count
# Sample input string
input_string = "Bangladesh has played 396 ODI matches resulting in 142 victories"
# Call the function with the input string
upper, lower = count_upper_lower(input_string)
# Print the results
print("No. of Upper case characters:", upper)
print("No. of Lower case Characters:", lower)
```

```
File Edit Shell 3.9.13

File Edit Shell Debug Options Window Help

Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

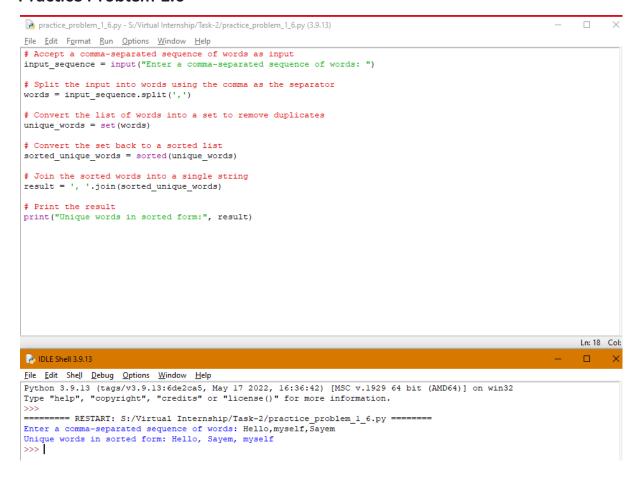
>>>

========= RESTART: S:/Virtual Internship/Task-2/practice_problem_1_5.py ========

No. of Upper case characters: 4

No. of Lower case Characters: 45

>>> I
```



practice_problem_1_7.py - S:/Virtual Internship/Task-2/practice_problem_1_7.py (3.9.13)

```
\underline{\mathsf{File}} \quad \underline{\mathsf{E}}\mathsf{dit} \quad \mathsf{F}\underline{\mathsf{o}}\mathsf{rmat} \quad \underline{\mathsf{R}}\mathsf{un} \quad \underline{\mathsf{O}}\mathsf{ptions} \quad \underline{\mathsf{W}}\mathsf{indow} \quad \underline{\mathsf{H}}\mathsf{elp}
# Sample string
sample_string = "thequickbrownfoxjumpsoverthelazydog"
# Initialize a dictionary to store character counts
char_count = {}
# Iterate through the string
for char in sample_string:
      # If the character is already in the dictionary, increment its count
     if char in char count:
          char_count[char] += 1
     \sharp If the character is not in the dictionary, add it with a count of 1
           char_count[char] = 1
# Iterate through the dictionary and print character counts
for char, count in char_count.items():
     if count > 1:
           print(f"{char} {count}")
```

```
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practice_problem_1_8.py - S:/Virtual Internship/Task-2/practice_problem_1_8.py (3.9.13)
\underline{\text{File}} \quad \underline{\text{E}} \text{dit} \quad \underline{\text{Fo}} \text{rmat} \quad \underline{\text{R}} \text{un} \quad \underline{\text{O}} \text{ptions} \quad \underline{\text{W}} \text{indow} \quad \underline{\text{H}} \text{elp}
# Define a list to store the extracted text from files
text_list = []
 # List of file names
file_names = ['wordsl.txt', 'words2.txt']
# Iterate through each file
for file_name in file_names:
       try:
             # Open and read the file
              with open(file_name, 'r') as file:
                    text = file.read()
                     text_list.append(text)
       except FileNotFoundError:
    print(f"File '{file_name}' not found. Skipping...")
 # Print the list of extracted text
for i, text in enumerate(text_list, start=1):
    print(f"Text from file {i}:\n{text}\n")
                                                                                                                                                                                              Ln: 20 Col:
                                                                                                                                                                                               <u>F</u>ile <u>E</u>dit She<u>l</u>l <u>D</u>ebug <u>O</u>ptions <u>W</u>indow <u>H</u>elp
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
             == RESTART: S:/Virtual Internship/Task-2/practice_problem_1_8.py =====
Text from file 1:
Welcome to the Python Wiki, a user-editable compendium of knowledge based around the Python programming language. So me pages are protected against casual editing - see WikiEditingGuidelines for more information about editing content
Text from file 2:
Python is a great object-oriented, interpreted, and interactive programming language. It is often compared (favorably of course:-)) to Lisp, Tcl, Perl, Ruby, C#, Visual Basic, Visual Fox Pro, Scheme or Java...and it's much more fun.
```