

Vowel-Consonant-HW

The screenshot shows the Spyder Python IDE interface. The File Explorer on the left lists files: Consonant-Vowel-HW.py, Leap-Year-HW.py, SOS.py, Sum-of-Squares-HW.py, untitled0.py, and untitled2.py. The Editor window displays the code for Consonant-Vowel-HW.py:

```
1 char = input("Enter a character: ")
2
3 if(char=='A' or char=='a' or char=='E' or char=='e' or char=='I'
4   or char=='O' or char=='o' or char=='U' or char=='u'):
5     print(char, "is a Vowel")
6 else:
7     print(char, "is a Consonant")
```

The Python console shows the execution of the program:

```
In [34]: runfile('C:/Users/Krystyn Benson/Desktop/Python/Consonant-Vowel-HW.py', wdir='C:/Users/Krystyn Benson/Desktop/Python')
Enter a character: A
A is a Vowel

In [35]: runfile('C:/Users/Krystyn Benson/Desktop/Python/Consonant-Vowel-HW.py', wdir='C:/Users/Krystyn Benson/Desktop/Python')
Enter a character: Z
Z is a Consonant

In [36]:
```

The Variable explorer on the right shows the state of variables: Year (int, 1, 10), all (str, 1, 8), char (str, 1, 2), dog (str, 1, 10), doge (list, 4, 1), e (float, 1, 2), finishers (list, 5, 1), n (int, 1, 1), middle_three (list, 3, 1), and e (float, 1, 2). The History log shows the execution of the program.

Leap-Year-HW

The screenshot shows the Spyder Python IDE interface. The File Explorer on the left lists files: Consonant-Vowel-HW.py, Leap-Year-HW.py, SOS.py, Sum-of-Squares-HW.py, untitled0.py, and untitled2.py. The Editor window displays the code for Leap-Year-HW.py:

```
1 Year = int(input("Enter a year: "))
2 if(Year%4 == 0):
3     if(Year%100 == 0):
4         if(Year%400 == 0):
5             print(Year, "is a leap year")
6         else: print(Year, "is not a leap year")
7     else: print(Year, "is a leap year")
8 else: print(Year, "is not a leap year")
```

The Python console shows the execution of the program:

```
In [37]: runfile('C:/Users/Krystyn Benson/Desktop/Python/Leap-Year-HW.py', wdir='C:/Users/Krystyn Benson/Desktop/Python')
Enter a year: 2020
2020 is a leap year

In [38]: runfile('C:/Users/Krystyn Benson/Desktop/Python/Leap-Year-HW.py', wdir='C:/Users/Krystyn Benson/Desktop/Python')
Enter a year: 2021
2021 is not a leap year

In [39]:
```

The Variable explorer on the right shows the state of variables: Year (int, 1, 10), all (str, 1, 8), char (str, 1, 2), dog (str, 1, 10), doge (list, 4, 1), e (float, 1, 2), finishers (list, 5, 1), n (int, 1, 1), middle_three (list, 3, 1), and e (float, 1, 2). The History log shows the execution of the program.

Sum-of-Squares-HW

