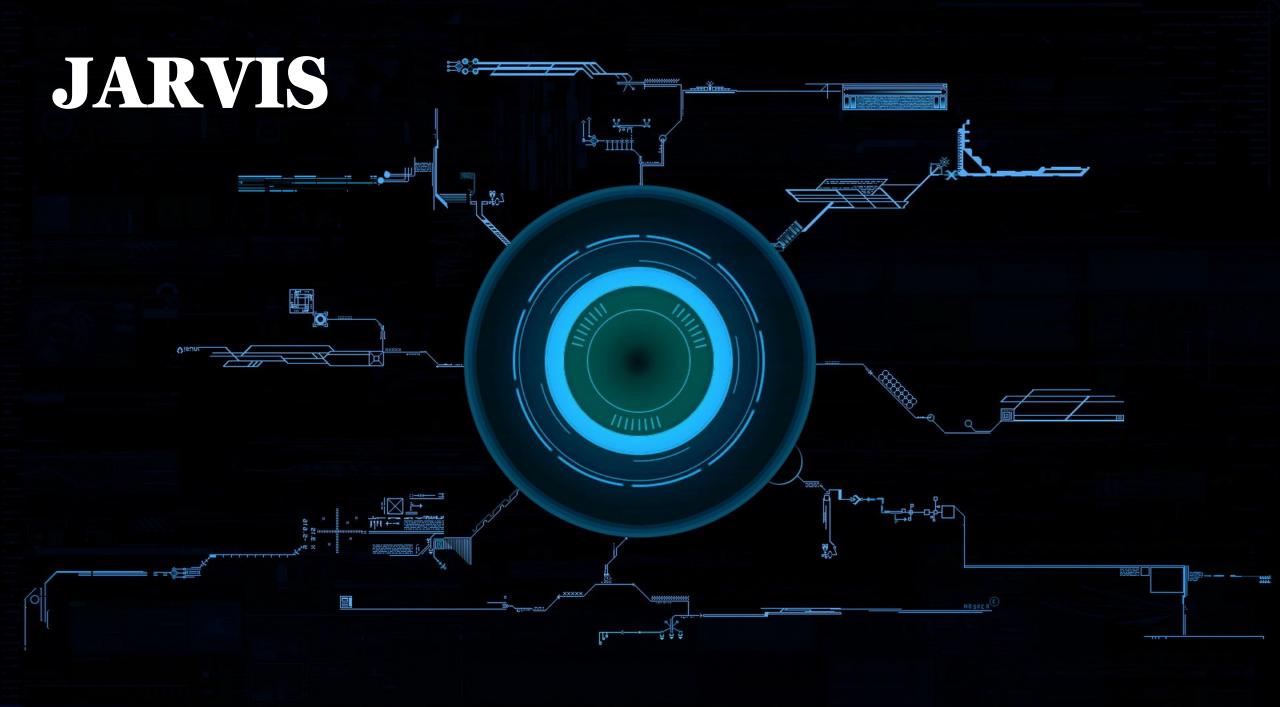
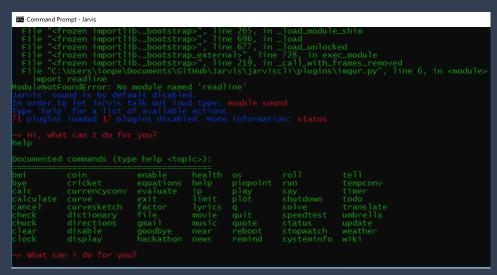
My First OSS Contribution

Part II

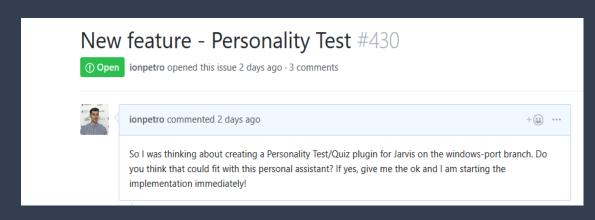


From previous episode:













PEP 8 Coding style in Python



✓ WROTE PLUGIN

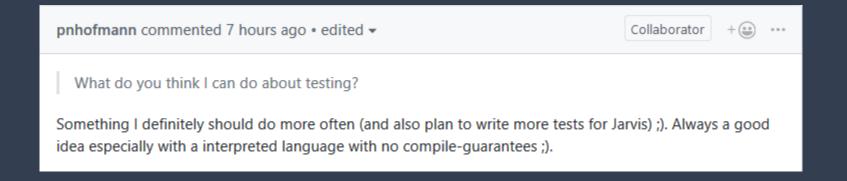
FEEDBACK

pnhofmann commented 2 days ago

Hi!

Do you think that could fit with this personal assistant?

Of course!



WHAT HAVE I DONE SO FAR?



Main Plugin:

```
import os
import sys
from plugin import plugin
from six.moves import input
from colorama import Fore, Back, Style
@plugin('bmi')
class Bmi():
    def call (self, jarvis, s):
        syst = ['metric', 'imperial']
        system = self.get_system('Type your system', syst)
        if system == 'metric':
            height, weight = self.ask_measurements(jarvis, "m")
            calc = self.calc_bmi_m(jarvis, height, weight)
            height, weight = self.ask measurements(jarvis, "i")
            calc = self.calc_bmi_i(jarvis, height, weight)
        calc = round(calc, 1)
        print("BMI: ", str(calc))
        self.find body state(jarvis, calc)
    def get_system(self, jarvis, syst):
        prompt = ('Please choose the system you would like to use\n'
                 '(1) For metric system\n
                 '(2) For imperial system\n'
                 'Your choice: ')
            c = input(prompt)
            return 'metric'
elif c == '2':
            return 'imperial'
elif c == 'help me':
                prompt = ('If you want to calculate on metric system type 1\n'
                         'If you want to calculate on imperial system type 2: ')
            elif c == 'try again':
                prompt = 'Please type 1 for metric and 2 for imperial system: '
                prompt = ('Type <help me> to see valid inputs \n'
                         'or <try again> to continue: ')
    def calc_bmi_m(self, jarvis, height, weight):
        height = height/100
        bmi = weight/height**2
        return bmi
    def calc_bmi_i(self, jarvis, height, weight):
        bmi = weight/height**2 * 703
        return bmi
```

```
def find body_state(self, jarvis, calc):
   if calc < 16:
        print('STATE: ' + Back.RED + 'Severe thinness')
   elif calc < 18.5:</pre>
        print('STATE: ' + Back.YELLOW + 'Mild thinness')
   elif calc < 25:</pre>
        print('STATE: ' + Back.GREEN + 'Healthy')
   elif calc < 30:</pre>
        print('STATE: ' + Back.YELLOW + 'Pre-obese')
        print('STATE: ' + Back.RED + 'Obese')
   print(Style.RESET_ALL)
def ask_measurements(self, jarvis, s):
    if s == "m":
        jarvis.say("Please insert your height (cm): ")
        height = input()
                height = int(height)
                if height <0:</pre>
                    raise ValueError('Please only positive numbers!')
            except ValueError:
                print("Error on input type for height, please insert an integer: ")
                height = input()
        jarvis.say("Please insert your weight (kg): ")
        weight = input()
                weight = int(weight)
                if weight <=0:
                    raise ValueError('Please only positive numbers!')
            except ValueError:
                print("Error on input type for weight, please insert an integer: ")
                weight = input()
        jarvis.say("Please insert your height (feet): ")
        feet = input()
        jarvis.say("Please insert your height (inches): ")
        inches = input()
        jarvis.say("Please insert your weight (lbs): ")
        weight = input()
        height = int(feet)*12 + int(inches)
        weight = int(weight)
    return height, weight
```

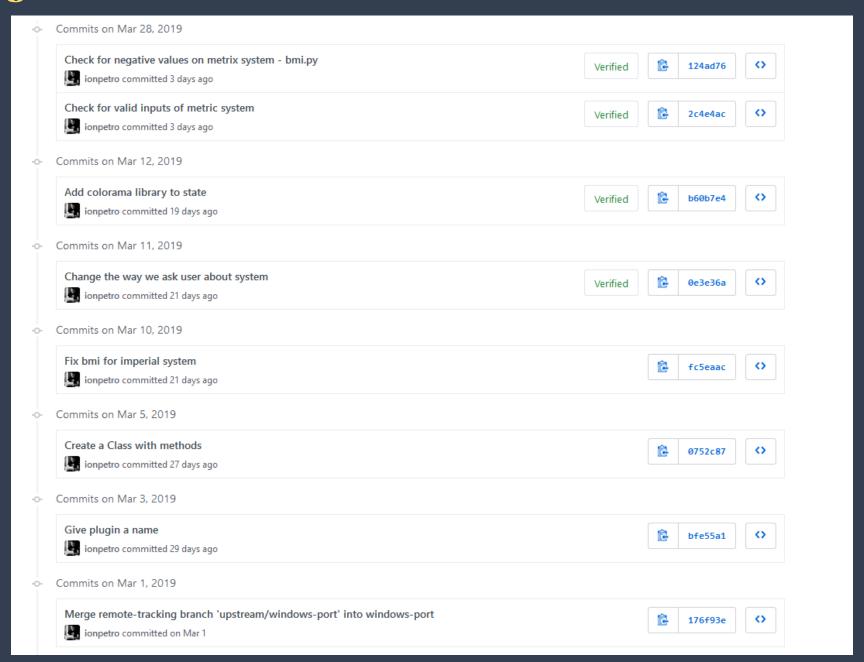
Unit Testing:

```
import unittest
from tests import PluginTest
from plugins.bmi import Bmi
from Jarvis import Jarvis
class BmiTest(PluginTest):
    def setUp(self):
        self.test = self.load_plugin(Bmi)
    def check_bmi_calculation(self):
       d = self.test.calc_bmi_m(100, 100)
       self.assertEqual(d, 100)
       d = self.test.calc_bmi_m(200, 400)
        self.assertEqual(d, 300)
if __name__ == '__main__':
    unittest.main()
```

Metrics:

Lines Of Code: Classes: 116 **Methods:** Files:

Committing:



Results:

Metric System:

```
hi, what can I do for you?
bmi
Please choose the system you would like to use
(1) For metric system
(2) For imperial system
Your choice: 1
Please insert your height (cm):
190
Please insert your weight (kg):
90
BMI: 24.9
STATE: Healthy

>> What can i do for you?
```

Imperial System:

```
What can i do for you?
bmi
Please choose the system you would like to use
(1) For metric system
(2) For imperial system
Your choice: 2
Please insert your height (feet):
5
Please insert your height (inches):
6
Please insert your weight (lbs):
180
BMI: 29.0
STATE: Pre-obese
```

Colorama Library:

BMI: 2.8

STATE: Severe thinness

BMI: 24.9

STATE: Healthy

BMI: 29.0

STATE: Pre-obese

BMI: 45.9

STATE: Obese

Scaling

To do NEXT:

✓ Test my Code

✓ Write another plugin

✓ Pray for Merge

Thank you for your time!