Michael Bullock

Python on AWS September 28, 2024

Lab-cake1: Check for even or odd

Write a program that will ask user for a number than check whether that number is EVEN or ODD.

Display on the screen:

Please enter a number between 1-100.

Your number user_number is even/odd.

```
sum-calculator.py
                        even_odd.py ×
 py_projects > 🕏 even_odd.py > ...
       # Name: Michael Bullock
        # Lab-cake1: Check for even or odd
       # Description: Write a program that will ask user for a number that check
       # whether that number is EVEN or ODD
       # Please enter a number between 1-100
       # Your number user_nmber is even/odd
        user_number = int(input("Please enter a number between 1-100: "))
        if (user_number % 2) == 0:
            print("{0} is Even".format(user_number))
            print("{0} is Odd".format(user_number))
  13
 PROBLEMS
             OUTPUT
                       DEBUG CONSOLE
                                       TERMINAL
                                                   PORTS
                                                           GITLENS
Michaels-iMac:py_projects michaelbullock$ python3 even_odd.py
 Please enter a number between 1-100: 7
  7 is Odd
Michaels-iMac:py_projects michaelbullock$ python3 even_odd.py
 Please enter a number between 1-100: 10
 10 is Even
```

Lab-cake2: grade-calculator.py

Write a program that will ask a student for a their grade in 5 subjects.

Calculate your average grade and print grade from A-E.

A > 90 B > 80

C > 70

D > 60

E === Failed ⊗

Display on the screen: Provide the screenshot and github link. Submit your homework in your github account as well. Create a folder Python-codes

```
even_odd.py
                   grade_calculator.py ×
py_projects > 🕏 grade_calculator.py > ...
      Michael Bullock, 11 minutes ago | 1 author (Michael Bullock)
      # Name: Michael Bullock
      # Lab-cake1: Check for even or odd
      # Description: Write a program that will ask a student for their grade in 5 subjects
      # Calculate your average grade and print grade from A - E.
      math_grade = float(input("Please enter math grade: "))
      english_grade = float(input("Please enter english grade: "))
      spanish_grade = float(input("Please enter spanish grade: "))
      history_grade = float(input("Please enter history grade: "))
      economics_grade = float(input("Please enter economics grade: "))
      grade_average = (math_grade + english_grade + spanish_grade + history_grade + economics_grade) / 5
      print(f"Your grade average is: {grade_average:.2f}")
      if grade_average >= 90:
      print("Your grade is A")
      elif grade_average >= 80 and grade_average < 90:</pre>
      print("Your grade is B")
      elif grade_average >= 70 and grade_average < 80:</pre>
      print("Your grade is C")
      elif grade_average >= 60 and grade_average < 70:</pre>
      print("Your grade is D")
          print[("Your grade is E === FAILED :( ") Michael Bullock, 11 minutes ago • Adding control flow
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

Michaels—iMac:py projects michaelbullock\$ python3 grade_calculator.py
Please enter math grade: 94
Please enter spanish grade: 94
Please enter spanish grade: 98
Please enter economics grade: 79
Your grade average is: 90.80
Your grade is A

Michaels—iMac:py_projects michaelbullock\$ python3 grade_calculator.py
Please enter math grade: 77
Please enter english grade: 50
Please enter spanish grade: 52
Please enter history grade: 53
Please enter economics grade: 51
Your grade average is: 56.60
Your grade is E === FAILED:(

Lab-cake 3: age-group-categorization.py

Prompt the user to enter their age as an integer.

Based on the input, categorize the person into one of the following life stages:

Infant: 0 - 1 year
Toddler: 2 - 3 years
Child: 4 - 12 years
Teenager: 13 - 19 years
Adult: 20 - 64 years

Senior: 65 years and older

Display the appropriate life stage.

If the user enters a negative number or a non-realistic number (e.g., more than 150), display an "Invalid age" message.

Display on the screen: Provide the screenshot and github link. Submit your homework in your github account as well. Create a folder Python-codes

```
age-group-categorization.py ×
py_projects > 🕏 age-group-categorization.py > ...
     Michael Bullock, 18 minutes ago | 1 author (Michael Bullock)
    # Name: Michael Bullock
    # Class: Python on AWS
    # Prompt the user to enter their age as an interger and display the appropriate life stage.
      # display an "Invalid age" message.
      user_age = int(input("Please enter you current age: "))
      print(f"You entered : {user_age}")
 if user_age == 0 or user_age == 1:
 print("Your current life stage is Infant")
     elif user_age == 2 or user_age == 3:
     print("Your current life stage is Toddler")
      elif user_age >= 4 and user_age <= 12:</pre>
     print("Your current life stage is Child")
      elif user_age >= 13 and user_age <= 19:</pre>
     print("Your current life stage is Teenager")
      elif user_age >= 20 and user_age <= 64:</pre>
     print("Your current life stage is Adult")
     elif user_age >= 65 and user_age <= 150:</pre>
     print("Your current life stage is Senior")
      else:
     25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

👩 bash - p

Michaels-iMac:py_projects michaelbullock\$ python3 age-group-categorization.py
 Please enter you current age: 42
 You entered: 42
 Your current life stage is Adult
 Michaels-iMac:py_projects michaelbullock\$ python3 age-group-categorization.py

Please enter you current age: -1 You entered : -1

Invalid age

Michaels-iMac:py_projects michaelbullock\$ python3 age-group-categorization.py
Please enter you current age: 155
You entered: 155

Invalid age