## CONTROL - FLOW LAB

#write a program that will ask a user for a number then check whether that number is EVEN or odd #Display on the screen:

#Please enter a number between 1 and 100

#Your number user number is even/odd

Odd-even.py

```
🕏 odd_even.py U 🗙 🛮 🕏 grade_calculator.py U
                                           age_group_categorization.py U
                                                                                                reverse word
                                                                          aws-account-id.py
 odd_even.py > ...
   1 #write a program that will ask a user for a number then check whether that number is EVEN or odd
       user_number = int(input("Please enter a number betwwn 1 and 100 \n"))
   8 if (user_number >= 1 and user_number <= 100) and (user_number % 2 ==0 ):</pre>
          print(f"Your number {user_number} is even")
  10 elif (user_number >= 1 and user_number <= 100) and (user_number % 2 != 0):</pre>
  print(f"Your number {user_number} is odd")
  print(f"ERROR: Your number {user_number} is out of range")
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
 Please enter a number betwwn 1 and 100
 Your number 78 is even
 Adetoye@DESKTOP-LRNB2QP MINGW64 ~/Documents/python2024 (main)
$ python odd_even.py
 Please enter a number betwwn 1 and 100
 Your number 33 is odd
 Adetoye@DESKTOP-LRNB2QP MINGW64 ~/Documents/python2024 (main)
○ $ 🛛
```

## Grade calculator script

#write a program that will ask a student for grade in 5 subjects

#calculate the average grade and print grade A-E

```
🕏 grade_calculator.py > ...
       grade1 = float(input("What's your grade in the 1st Subject: "))
       grade2 = float(input("What's your grade in the 2nd Subject: "))
       grade3 = float(input("What's your grade in the 3rd Subject: "))
       grade4 = float(input("What's your grade in the 4th Subject: "))
       grade5 = float(input("What's your grade in the 5th Subject: "))
       average = (grade1 + grade2 + grade3 + grade4 + grade5) / 5
       if average > 90:
          print("A")
       elif average > 80 and average < 90:
           nrint("R")
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
 Adetoye@DESKTOP-LRNB2QP MINGW64 ~/Documents/python2024 (main)
$ python grade_calculator.py
 What's your grade in the 1st Subject: 45
 What's your grade in the 2nd Subject: 98
 What's your grade in the 3rd Subject: 87.8
 What's your grade in the 4th Subject: 99.5
 What's your grade in the 5th Subject: 34.9
 Adetoye@DESKTOP-LRNB2QP MINGW64 ~/Documents/python2024 (main)
○ $
```

Age\_group categorization output

# Prompt the user to enter their age as an integer

#Based on the input, categorize the person into one of the following

# Infant (0-1), Toddler (2-3), child (4-12), Teenager (13-19), Adult (20-64), Senior (65 or older)

```
🅏 age_group_categorization.py > ...
        age = int(input("what is your age today: "))
       if age >= 0 and age <= 1:
          print("You are an Infant")
       elif age >=2 and age <=3 :
           print("You are a Toddler")
       elif age >=4 and age <=12 :
           print("You are a Child")
       elif age >= 13 and age <= 19 :
           print("You are a Teenager")
       elif age >=20 and age <= 64 :
           print("You are a Adult")
       elif age >= 65 and age <= 150:
           print("You are a Senior")
           print("ERROR: The age is invalid")
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
 $ python age_group_categorization.py
 what is your age today: 3
• You are a Toddler
 Adetoye@DESKTOP-LRNB2QP MINGW64 ~/Documents/python2024 (main)
 $ python age_group_categorization.py
 what is your age today: 10
 You are a Child
 Adetoye@DESKTOP-LRNB2QP MINGW64 ~/Documents/python2024 (main)
o $
```