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CUETO, ALEXA JOYCE G.
TW23
ACTIVITY 5: FUNCTION
Source Code:
#CUETO, ALEXA JOYCE G
#TW23
#FUNCTION
def mainMenu(): #Function to display menu
    while True:
        print("\n\t\t--MENU--")
        print("\t\t1. Divide")
        print("\t\t2. Exponentiation")
        print("\t\t3. Remainder")
        print("\t\t4. Summation")
        print("\t\t5. Exit")
        choice =input("\t\tEnter your choice: ")
        if choice == "1":
            division()
        elif choice == "2":
            exponentiation()
        elif choice == "3":
            remainder()
        elif choice == "4":
            summation()
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elif choice =="5":
            print("\t\tThank you for using the program!")
            break
        else:
            print("\t\tInvalid choice. Try again")
def division():
    firstNumber = input("\n\t\tEnter your first numer: ")
    secondNumber = input("\t\tEnter your second number: ")
    if secondNumber == "0": #Error Handling
        print("\t\tThe second number must not be equal to
zero.")
        return None
    else:
        result = int(firstNumber) / int(secondNumber)
        print(f"\n\t\tThe result of {firstNumber} divided by
{secondNumber} is {result}")
        return result
def exponentiation():
   baseNumber = input("\n\t\tEnter your base number: ")
    exponentNumber = input("\t\tEnter your exponent number: ")
    if exponentNumber < "0" and baseNumber == "0" : #Error
Handling
        print("\t\tThe base number must not be equal to zero if
the exponent is less than zero.")
        return None
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else:
        result = int(baseNumber) ** int(exponentNumber)
        print(f"\n\t\tThe result of {baseNumber} raised to the
power of {exponentNumber} is {result}")
        return result
def remainder():
    firstNumber = input("\n\t\tEnter your first number: ")
    secondNumber = input("\t\tEnter your second numer: ")
    if secondNumber == "0": #Error Handling
        print("\t\tThe second number must not be equal to
zero.")
        return None
    else:
        result = int(firstNumber) % int(secondNumber)
        print(f"\n\t\tThe remainder of {firstNumber} divided by
{secondNumber} is {result}")
        return result
def summation():
    firstNumber = input("\n\t\tEnter your first number: ")
    secondNumber = input("\t\tEnter your second number: ")
    if secondNumber <= firstNumber: #Error Handling</pre>
        print("\t\tThe second number must be greater than the
first number.")
        return None
    else:
```

Screenshots of results:

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PS C:\it0011 CUETO> & "C:/Users/Alexa Cueto/AppData/Local/Programs/P
               --MENU--
               1. Divide
               2. Exponentiation
               3. Remainder
               4. Summation
               5. Exit
               Enter your choice: 1
               Enter your first numer: 20
               Enter your second number: 5
               The result of 20 divided by 5 is 4.0
               --MENU--
               1. Divide
               2. Exponentiation
               3. Remainder
               4. Summation
               5. Exit
               Enter your choice: 1
               Enter your first numer: 20
               Enter your second number: 0
               The second number must not be equal to zero.
               --MENU--
               1. Divide
               2. Exponentiation
               3. Remainder
               4. Summation
               5. Exit
               Enter your choice: 2
               Enter your base number: 4
               Enter your exponent number: 5
               The result of 4 raised to the power of 5 is 1024
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--MENU--
1. Divide
2. Exponentiation
3. Remainder
4. Summation
5. Exit
Enter your choice: 2
Enter your base number: 0
Enter your exponent number: -2
The base number must not be equal to zero if the exponent is less than zero.
--MENU--
1. Divide
2. Exponentiation
3. Remainder
4. Summation
5. Exit
Enter your choice: 3
Enter your first number: 10
Enter your second numer: 20
The remainder of 10 divided by 20 is 10
--MENU--
1. Divide
2. Exponentiation
3. Remainder
4. Summation
5. Exit
Enter your choice: 3
Enter your first number: 10
Enter your second numer: 0
The second number must not be equal to zero.
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--MENU--
                1. Divide
                2. Exponentiation
                3. Remainder
               4. Summation
                5. Exit
                Enter your choice: 4
                Enter your first number: 4
                Enter your second number: 8
                The sum of 4 to 8 is 30
                --MENU--
                1. Divide
                2. Exponentiation
                3. Remainder
               4. Summation
                5. Exit
                Enter your choice: 4
                Enter your first number: 6
                Enter your second number: 2
                The second number must be greater than the first number.
                --MENU--
                1. Divide
                2. Exponentiation
                3. Remainder
                4. Summation
                5. Exit
                Enter your choice: 5
Thank you for using the program!
PS C:\it0011_CUETO>
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