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1  #Basic Data Types Challenge 5: Multiplication/Exponent Table Program
2
3  print("Welcome to the Multiplication/Exponent Table Program")
4
5  #Gather user input
6  name = input("\nHello, what is your name: ").title().strip()
7  num = float(input("What number would you like to work with: "))
8  message = name + ", Math is cool!"
9
10 #Multiplication table
11 print("\nMultiplication Table For " + str(num))
12 print("\n\t 1.0 * " + str(num) + " = " + str(round(1*num, 4)))
13 print("\t 2.0 * " + str(num) + " = " + str(round(2*num, 4)))
14 print("\t 3.0 * " + str(num) + " = " + str(round(3*num, 4)))
15 print("\t 4.0 * " + str(num) + " = " + str(round(4*num, 4)))
16 print("\t 5.0 * " + str(num) + " = " + str(round(5*num, 4)))
17 print("\t 6.0 * " + str(num) + " = " + str(round(6*num, 4)))
18 print("\t 7.0 * " + str(num) + " = " + str(round(7*num, 4)))
19 print("\t 8.0 * " + str(num) + " = " + str(round(8*num, 4)))
20 print("\t 9.0 * " + str(num) + " = " + str(round(9*num, 4)))
21
22 #Exponent table
23 print("\nExponent Table For " + str(num))
24 print("\n\t" + str(num) + " ** 1 = " + str(round(num**1, 4)))
25 print("\t" + str(num) + " ** 2 = " + str(round(num**2, 4)))
26 print("\t" + str(num) + " ** 3 = " + str(round(num**3, 4)))
27 print("\t" + str(num) + " ** 4 = " + str(round(num**4, 4)))
28 print("\t" + str(num) + " ** 5 = " + str(round(num**5, 4)))
29 print("\t" + str(num) + " ** 6 = " + str(round(num**6, 4)))
30 print("\t" + str(num) + " ** 7 = " + str(round(num**7, 4)))
31 print("\t" + str(num) + " ** 8 = " + str(round(num**8, 4)))
32 print("\t" + str(num) + " ** 9 = " + str(round(num**9, 4)))
33
34 #Math is cool!
35 print("\n" + message)
36 print("\t" + message.lower())
37 print("\t\t" + message.title())
38 print("\t\t\t" + message.upper())

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