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#P5HW
#Loop functions
import random
def add():
   guesses = 1
   rand num1 = random.randint(1, 100)
   rand_num2 = random.randint(1, 100)
   add = rand num1 + rand num2
   print(f'{rand num1:4}')
   print("+", rand num2)
   print()
   answer = int(input("Enter answer: \n"))
   while answer != add:
       if answer < add:</pre>
          print("Sorry, guess is too low.\n")
          print("Try again: ")
          quesses += 1
          answer = int(input("Enter answer: \n"))
        if answer > add:
          print("Sorry, guess is too high.\n")
          print("Try again: ")
          guesses += 1
          answer = int(input("Enter answer: \n"))
        if answer == add:
           print("Congratulations!!!! Your answer is correct.")
   print("Number of guesses: ", guesses)
def sub():
   guesses = 1
    rand num1 = random.randint(1, 100)
   rand num2 = random.randint(1, 100)
   sub = rand_num1 - rand_num2
   print(f'{rand num1:4}')
   print("-", rand_num2)
   print()
   answer = int(input("Enter answer: \n"))
   while answer != sub:
       if answer < sub:</pre>
           print("Sorry, guess is too low.\n")
           print("Try again: ")
           quesses += 1
           answer = int(input("Enter answer: \n"))
        if answer > sub:
           print("Sorry, guess is too high.\n")
           print("Try again: ")
           guesses += 1
           answer = int(input("Enter answer: \n"))
        if answer == sub:
           print("Congratulations!!!! Your answer is correct.")
   print("Number of guesses: ", guesses)
def main():
   print("Welcome to Math Quiz")
   print()
   print("MAIN MENU")
   print("----")
   print("1. Adding Random Numbers")
   print("2. Subtracting Random Numbers")
   print("3. Exit")
   print()
   main opt = int(input("Please choose one of the menu options: "))
   while main_opt != 3:
       if main_opt == 1:
           add()
       if main_opt == 2:
           sub()
       print()
       print("MAIN MENU")
       print("-----
       print("1. Adding Random Numbers")
       print("2. Subtracting Random Numbers")
print("3. Exit")
       main_opt = int(input("Please choose one of the menu options: "))
   print("Thank you for playing...")
   print("Bye!!")
```

