client.py

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1
2  import grpc
3  import calculator_grpc_pb2
4  import calculator_grpc_pb2_grpc
5  def connect():
6      channel = grpc.insecure_channel('localhost:9999')
7      client = calculator_grpc_pb2_grpc.apiStub(channel)
8      while True:
9          print('Enter 1 to add,'
10               ' 2 to subtract,'
11               ' 3 to multiply,'
12               ' 4 to divide,5 to sq root, 6 to exit')
13         print()
14         n = input('Enter your choice: ')
15         if n == '1':
16             print('Welcome to Addition')
17             x = int(input('Enter First num:'))
18             y = int(input('Enter Second num:'))
19             # raise pybreaker.CircuitBreakerError
20             res = client.add(calculator_grpc_pb2.twoNums(numOne=x, numTwo=y))
21             print(res.num)
22         elif n == '2':
23             print('Welcome to Subtraction')
24             x = int(input('Enter First num:'))
25             y = int(input('Enter Second num:'))
26             res = client.sub(calculator_grpc_pb2.twoNums(numOne=x, numTwo=y))
27             # tme.sleep(5)
28             print(res.num)
29         elif n == '3':
30             print('Welcome to Multiplication')
31             x = int(input('Enter First num:'))
32             y = int(input('Enter Second num:'))
33             res = client.mul(calculator_grpc_pb2.twoNums(numOne=x, numTwo=y))
34             print(res.num)
35         elif n == '4':
36             print('Welcome to Division')
37             x = int(input('Enter First num:'))
38             y = int(input('Enter Second num:'))
39             res = client.div(calculator_grpc_pb2.twoNums(numOne=x, numTwo=y))
40             print(res.num)
41         elif n == '5':
42             print('Welcome to square root')
43             x = int(input('Enter First num:'))
44             res = client.sq(calculator_grpc_pb2.twoNums(numOne=x))
45             print(res.num)
46         elif n == '6':
47             print('Exiting')
48             exit()
49         else:
50             print('Invalid Input,')
51
52 connect()
```