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import math

def add(x,y):
    return x+y

def sub(x,y):
    return x-y

def mul(x,y):
    return x*y

def div(x,y):
    return x/y

def inverse(x):
    return 1/x

def square(x):
    return x**2

def square_root(x):
    m=math.sqrt(x)
    return m

def per(tot,gained):
    per=(gained/tot)*100
    return per
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def calculator():
    print("Select operation:")
    print("1. Add")
    print("2. Subtract")
    print("3. Multiply")
    print("4. Divide")
    print("5. Inverse")
    print("6. Square of a number")
    print("7. Square root of a number")
    print("8. Percentage")

    while True:

        choice = input("Enter choice(1/2/3/4/5/6/7/8): ")

        if choice in ['1', '2', '3', '4', '5', '6', '7', '8']:
            if choice == '1':
                try:
                    num1 = float(input("Enter first number: "))
                    num2 = float(input("Enter second number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=add(num1,num2)
                print(f"The Addition of {num1} and {num2} is {r}")
            elif choice == '2':
                try:
                    num1 = float(input("Enter first number: "))
                    num2 = float(input("Enter second number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=sub(num1,num2)
                print(f"The Subtraction of {num1} and {num2} is {r}")

            elif choice == '3':
                try:
                    num1 = float(input("Enter first number: "))
                    num2 = float(input("Enter second number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=mul(num1,num2)
                print(f"The Multiplication of {num1} and {num2} is {r}")


            elif choice == '4':
                try:
                    num1 = float(input("Enter first number: "))
                    num2 = float(input("Enter second number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=div(num1,num2)
                print(f"The Division of {num1} and {num2} is {r}")
            elif choice=='5':
                try:
                    num1 = float(input("Enter first number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=inverse(num1)
                print(f"The inverse of the number {num1} is {r}")
            elif choice == '6':
                try:
                    num1 = float(input("Enter first number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=square(num1)
                print(f"The Square of the number {num1} is {r}")
            elif choice=='7':
                try:
                    num1 = float(input("Enter first number: "))
                except ValueError:
                    print("Invalid input. Please enter numeric values.")
                    continue
                r=square_root(num1)
                print(f"The Square Root of the number {num1} is {r}")
            elif choice=='8':
                try:
                    num1 = float(input("Enter total amount: "))

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    gained = float(input("Enter amount: "))
if __name__ == "__main__":
    calculator()

```

 Select operation:
 1. Add
 2. Subtract
 3. Multiply
 4. Divide
 5. Inverse
 6. Square of a number
 7. Square root of a number
 8. Percentage
 Enter choice(1/2/3/4/5/6/7/8): 1
 Enter first number: 2
 Enter second number: 3
 The Addition of 2.0 and 3.0 is 5.0
 Do you want to perform another calculation? (yes/no): yes
 Enter choice(1/2/3/4/5/6/7/8): 2
 Enter first number: 3
 Enter second number: 4
 The Subtraction of 3.0 and 4.0 is -1.0
 Do you want to perform another calculation? (yes/no): yes
 Enter choice(1/2/3/4/5/6/7/8): 3
 Enter first number: 4
 Enter second number: 5
 The Multiplication of 4.0 and 5.0 is 20.0
 Do you want to perform another calculation? (yes/no): yes
 Enter choice(1/2/3/4/5/6/7/8): 4
 Enter first number:
 Invalid input. Please enter numeric values.
 Enter choice(1/2/3/4/5/6/7/8):
 Invalid Input
 Enter choice(1/2/3/4/5/6/7/8): 4
 Enter first number: 5
 Enter second number: 6
 The Division of 5.0 and 6.0 is 0.8333333333333334
 Do you want to perform another calculation? (yes/no): yes
 Enter choice(1/2/3/4/5/6/7/8): 6
 Enter first number: 5
 The square of the number 5.0 is 25.0
 Do you want to perform another calculation? (yes/no): yes