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Python Internship

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TASK 2

CALCULATOR

Design a simple calculator with basic arithmetic operations.
Prompt the user to input two numbers and an operation choice.
Prompt the user to input two numbers and an operation choice.
Perform the calculation and display the result.

```python
# Design a simple caluculator with basic arithmetic operations
def add(x, y):
    return x + y

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

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

def divide(x, y):
    if y == 0:
        return "Error! Division by zero."
    else:
        return x / y

print("Select operation:")
print("1. Add")
print("2. Subtract")
print("3. Multiply")
print("4. Divide")

while True:
    choice = input("Enter choice (1/2/3/4): ")

    if choice in ('1', '2', '3', '4'):
        try:
            num1 = float(input("Enter first number: "))
            num2 = float(input("Enter second number: "))
        except ValueError:
            print("invalid input.please enter a valid number")
            continue

        if choice == '1':
            print(f"{num1} + {num2} = {add(num1,num2)}")
        elif choice == '2':
            print(f"{num1} - {num2} = {subtract(num1, num2)}")
        elif choice == '3':
            print(f"{num1} * {num2} = {multiply(num1, num2)}")
```

```python
        elif choice == '4':
            result = divide (num1, num2)
            print(f"{num1} / {num2} = {result}")
        else:
            print("Invalid input.please choose a valid operation.")
```

```
Select operation:
1. Add
2. Subtract
3. Multiply
4. Divide
Enter choice (1/2/3/4):  1
Enter first number:  2500
Enter second number:  500
2500.0 + 500.0 = 3000.0
Enter choice (1/2/3/4):  2
Enter first number:  3000
Enter second number:  2000
3000.0 - 2000.0 = 1000.0
Enter choice (1/2/3/4):  3
Enter first number:  3000
Enter second number:  2
3000.0 * 2.0 = 6000.0
Enter choice (1/2/3/4):  4
Enter first number:  1000
Enter second number:  10
1000.0 / 10.0 = 100.0
Enter choice (1/2/3/4):  5
Enter choice (1/2/3/4):
```

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