

TASK:2

Design a simple calculator with basic arithmetic operations.

Prompt the user to input two numbers and an operation choice.

Perform the calculation and display the result.

CODE:

```
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):
```

```
    return x / y
```

```
print("Select operation.")
```

```
print("1.Add")
```

```
print("2.Subtract")
```

```
print("3.Multiply")
```

```
print("4.Divide")
```

```
while True:
```

```
    ch = input("Enter choice(1/2/3/4): ")
```

```
    if ch 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 number.")

    continue


if ch == '1':

    print(num1, "+", num2, "=", add(num1, num2))


elif ch == '2':

    print(num1, "-", num2, "=", subtract(num1, num2))


elif ch == '3':

    print(num1, "*", num2, "=", multiply(num1, num2))


elif ch == '4':

    print(num1, "/", num2, "=", divide(num1, num2))


next_calc = input("Next calculation? (yes/no): ")

if next_calc == "no":

    break

else:

    print("error in input")
```

OUTPUTS:

Output

```
Select operation.  
1.Add  
2.Subtract  
3.Multiply  
4.Divide  
Enter choice(1/2/3/4): 2  
Enter first number: 10  
Enter second number: 2  
10.0 - 2.0 = 8.0  
Next calculation? (yes/no): yes  
Enter choice(1/2/3/4): 1  
Enter first number: 15  
Enter second number: 30  
15.0 + 30.0 = 45.0  
Next calculation? (yes/no): yes  
Enter choice(1/2/3/4): 3  
Enter first number: 6  
Enter second number: 5  
6.0 * 5.0 = 30.0  
Next calculation? (yes/no): yes  
Enter choice(1/2/3/4): 4  
Enter first number: 40  
Enter second number: 2  
40.0 / 2.0 = 20.0  
Next calculation? (yes/no): no
```

Output

```
Select operation.  
1.Add  
2.Subtract  
3.Multiply  
4.Divide  
Enter choice(1/2/3/4): 1  
Enter first number: 2  
Enter second number: 3  
2.0 + 3.0 = 5.0  
Next calculation? (yes/no): no  
  
=== Code Execution Successful ===
```