```
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 x / y
    else:
        return "Cannot divide by zero"

while True:
    print("Select operation:")
    print("1. Add")
    print("2. Subtract")
    print("3. Multiply")
    print("4. Divide")
    print("5. Exit")
```

```
    choice = input("Enter
choice (1/2/3/4/5): ")

    if choice == '5':
        print("Calculator
exiting...")
        break

    if choice in ('1', '2', '3', '4'):
        num1 =
float(input("Enter first
```

```
number: "))
        num2 =
float(input("Enter second
number: "))

        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)}")

        elif choice == '4':
            result = divide(num1,
num2)
            print(f"{num1} /
{num2} = {result}")
```

```
    else:
        print("Invalid input.
Please enter a valid number
or '5' to exit.")
```