```
print("\n--Welcome to Simple Calculator--")

history=[]
a=int(input("Enter first number a:"))
b=int(input("Enter first number b:"))

def addition_num():
    add=a+b
    print(f"The addition of enter num is:{add}")
    history.append(f"{a} + {b}={add}")

def subtraction_num():
    sub=a-b
    print(f"The subtraction of enter num is:{sub}")
    history.append(f"{a} - {b}={sub}")

def multiply_num():
    mul=a*b
    print(f"The multiplication of enter num is:{mul}")
    history.append(f"{a} * {b}={mul}")

def division_num():
    if b==0:
        print("Division by zero is not possible")
        history.append(f"{a} / {b}=Error(Division by zero)")
    else:
        div=a/b
        print(f"The division of enter num is:{div}")
        history.append(f"{a} / {b}={div}")

def modulus_num():
```

```
    mod=a%b
    print(f"The remainder of enter num is:{mod}")
    history.append(f"{a} % {b}={mod}")

def menu():
    global a,b
    while True:
        print("\n---Calculator Menu ---")
        print("1. Addition")
        print("2. Subtraction")
        print("3. Multiplication")
        print("4. Division")
        print("5. Modulus")
        print("6 Change Numbers")
        print("7 Show History")
        print("8 Exit")

        choice = input("Choose an option: ")
        if choice == '1':
            addition_num()
        elif choice == '2':
            subtraction_num()
        elif choice == '3':
            multiply_num()
        elif choice == '4':
            division_num()
        elif choice == '5':
            modulus_num()
        elif choice =='6':
            try:
                a=int(input("Enter new value for a:"))
```

```
            b=int(input("Enter new value for b:"))
            print(f"Updated numbers:a={a} and b={b}")

        except ValueError:
            print("Invalid input.Please enter integers only")

    elif choice=='7':
        if not history:
            print("No operations done yet!")
        else:
            print("Operation history:")
            for record in history:
                print(record)

    elif choice =='8':
        print("Exiting Calculator.Thankyou for using it!")
        break
    else:
        print("Invalid choice,Please enter a number between 1 and 6")

menu()
```

OUTPUT:

```
--Welcome to Simple Calculator--
Enter first number a:8
Enter first number b:4

---Calculator Menu ---
1. Addition
2. Subtraction
3. Multiplication
```

4. Division

5. Modulus

6 Change Numbers

7 Show History

8 Exit

Choose an option: 1

The addition of enter num is:12

---Calculator Menu ---

1. Addition

2. Subtraction

3. Multiplication

4. Division

5. Modulus

6 Change Numbers

7 Show History

8 Exit

Choose an option: 3

The multiplication of enter num is:32

---Calculator Menu ---

1. Addition

2. Subtraction

3. Multiplication

4. Division

5. Modulus

6 Change Numbers

7 Show History

8 Exit

Choose an option: 6

Enter new value for a:6

Enter new value for b:4

Updated numbers:a=6 and b=4

---Calculator Menu ---

1. Addition

2. Subtraction

3. Multiplication

4. Division

5. Modulus

6 Change Numbers

7 Show History

8 Exit

Choose an option: 7

Operation history:

8 + 4=12

8 * 4=32

---Calculator Menu ---

1. Addition

2. Subtraction

3. Multiplication

4. Division

5. Modulus

6 Change Numbers

7 Show History

8 Exit

Choose an option: 8

Exiting Calculator.Thankyou for using it!