

# Function to calculate Simple Interest

```
def calculate_simple_interest(principal, rate, time):  
    # Simple Interest formula:  $SI = (P * R * T) / 100$   
    simple_interest = (principal * rate * time) / 100  
    return simple_interest
```

# Main function to get input and display the result

```
def main():  
    # Get user input for principal, rate, and time  
    principal = float(input("Enter the principal amount: ₹"))  
    rate = float(input("Enter the rate of interest: "))  
    time = float(input("Enter the time period (in years): "))  
  
    # Calculate Simple Interest  
    si = calculate_simple_interest(principal, rate, time)  
  
    # Display the result  
    print(f"The Simple Interest is: ₹{si:.2f}")
```

# Run the program

```
if __name__ == "__main__":  
    main()
```

```

# Function for addition
def add(x, y):
    return x+y

# Function for subtraction
def subtract(x, y):
    return x-y

# Function for multiplication
def multiply(x, y):
    return x*y

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

# Function to display the menu and take user input
def calculator():
    print("Welcome to the simple calculator!")
    print("Select operation:")
    print("1. Add")
    print("2. Subtract")
    print("3. Multiply")
    print("4. Divide")
    print("5. Exit")

    # Take input from the user
    choice = input("Enter choice(1/2/3/4): ")

    # Check if the input is a valid choice
    if choice in ['1', '2', '3', '4']:
        # Take the numbers from the user
        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':  
    print(f"{num1} / {num2} = {divide(num1, num2)}")  
else:  
    print("Invalid input! Please select a valid operation.")  
  
if __name__ == "__main__":  
    calculator()
```