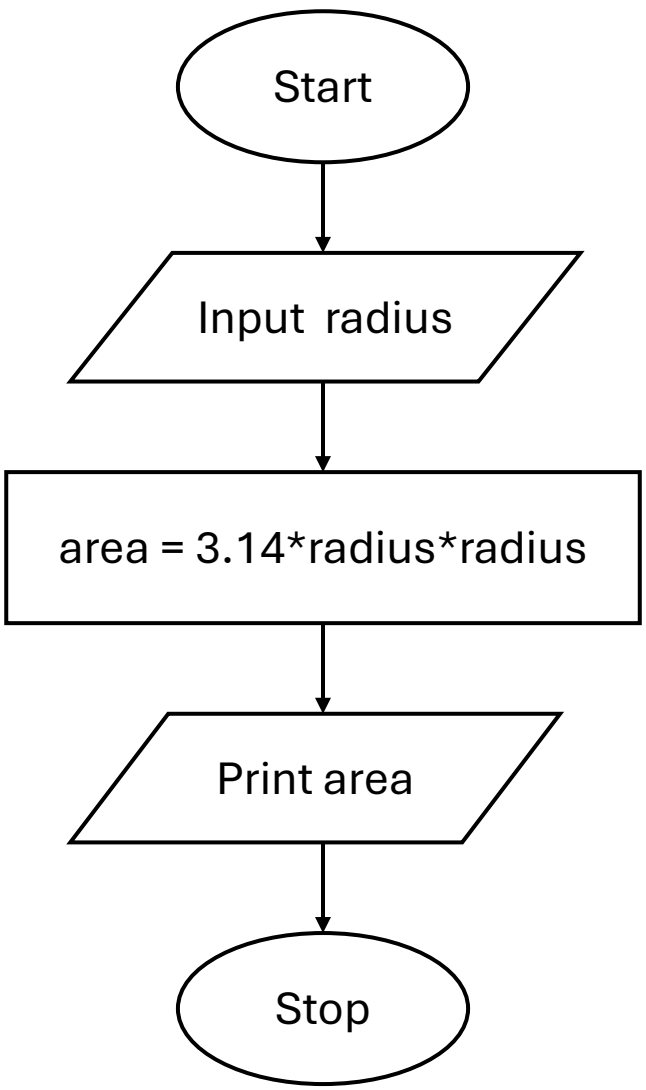
Experiment – 1

1.1.1 Area of Circle

- Algorithm

STEP 1 : Start
STEP 2 : Input radius
STEP 3 : Calculate
area = 3.14*radius*radius
STEP 4 : Print area
STEP 5 : Stop

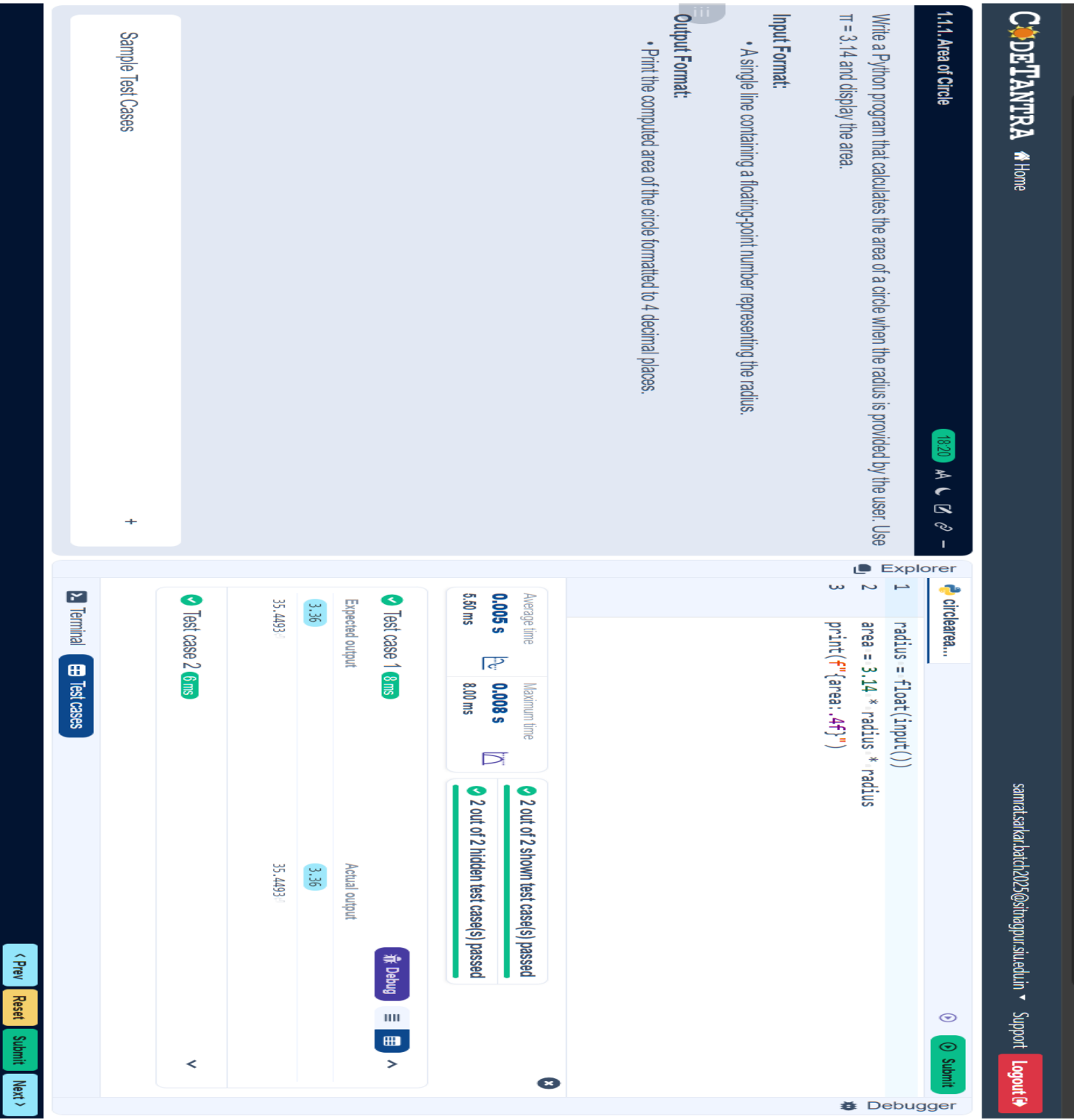
- Flowchart



- Code

```
radius=float(input())
area=3.14*radius*radius
print(f"{area:.4f}")
```

- Execution



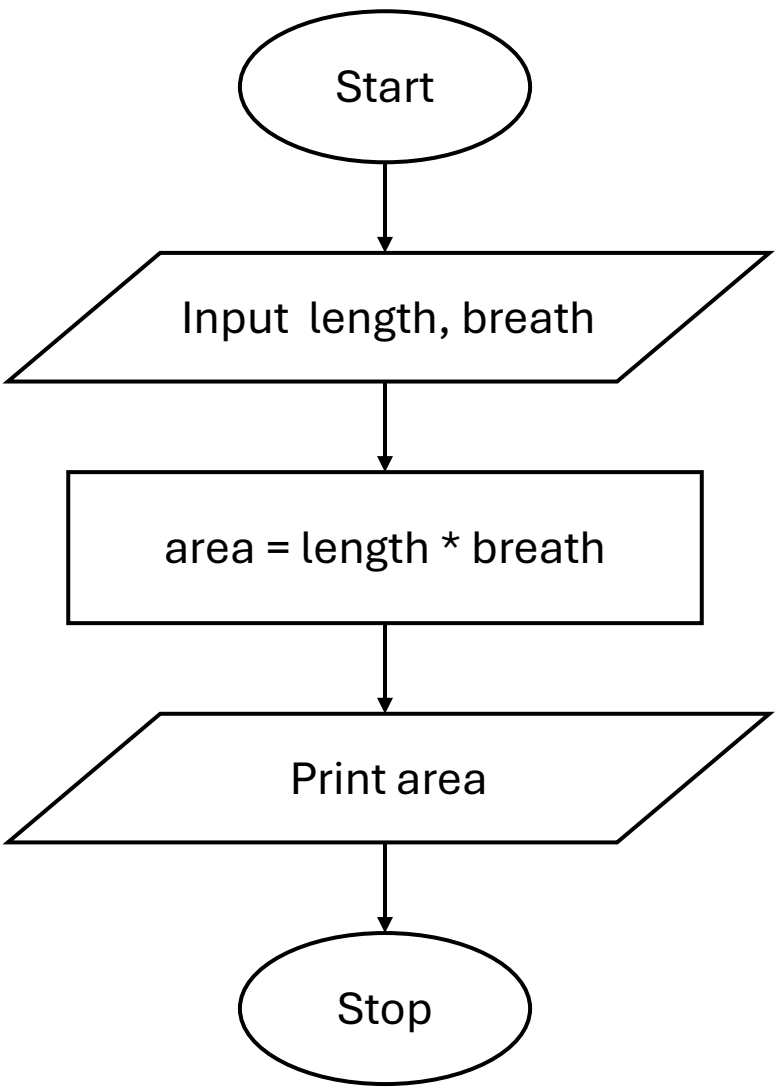
Experiment – 1

1.1.2 Area of Rectangle

- Algorithm

STEP 1 : Start
STEP 2 : Input length, breath
STEP 3 : Calculate
area = length*breath
STEP 4 : Print area
STEP 5 : Stop

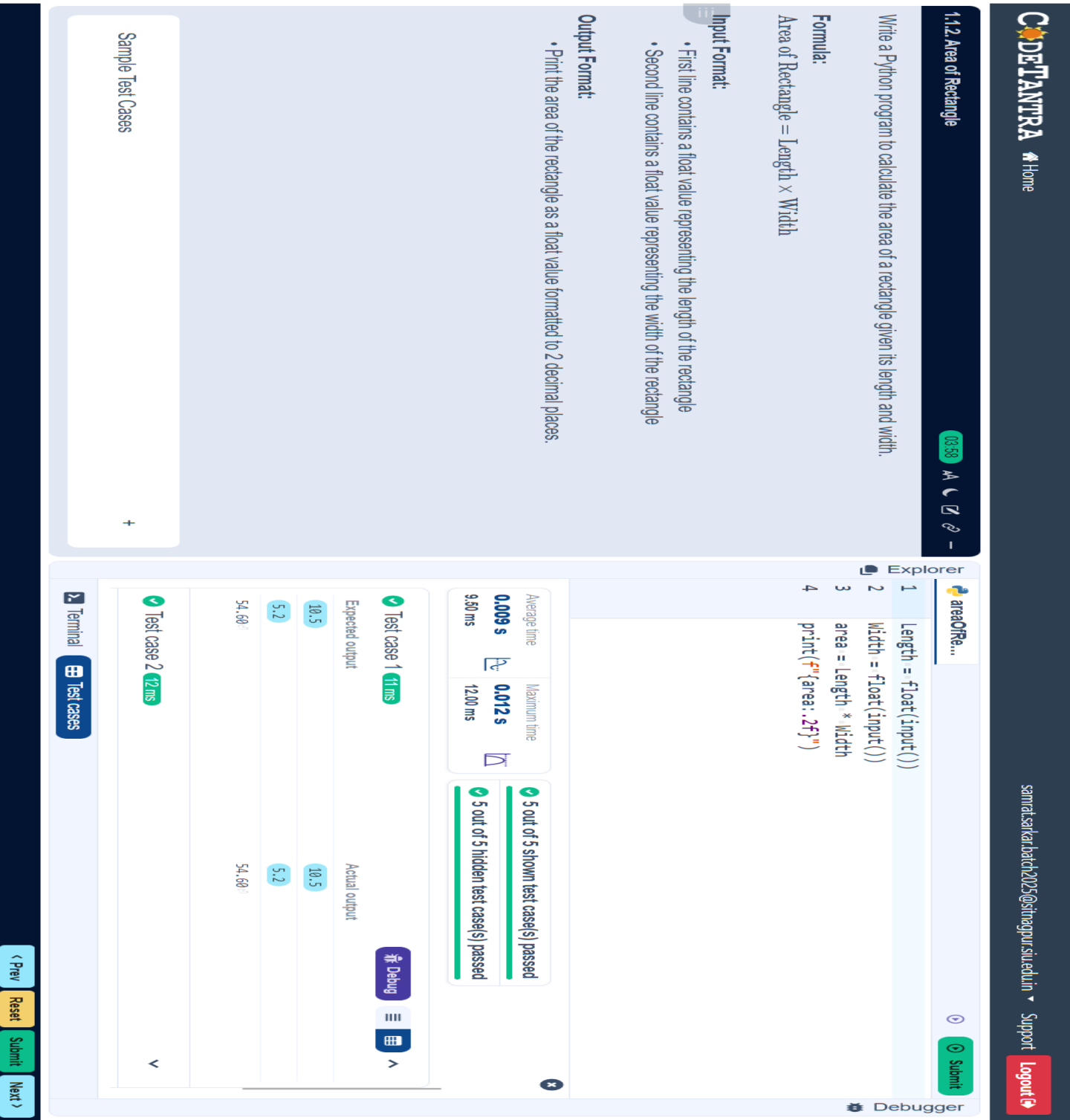
- Flowchart



- Code

```
length = float(input())
breath = float(input())
area = length*breath
print(f"{area:.2f}")
```

- Execution



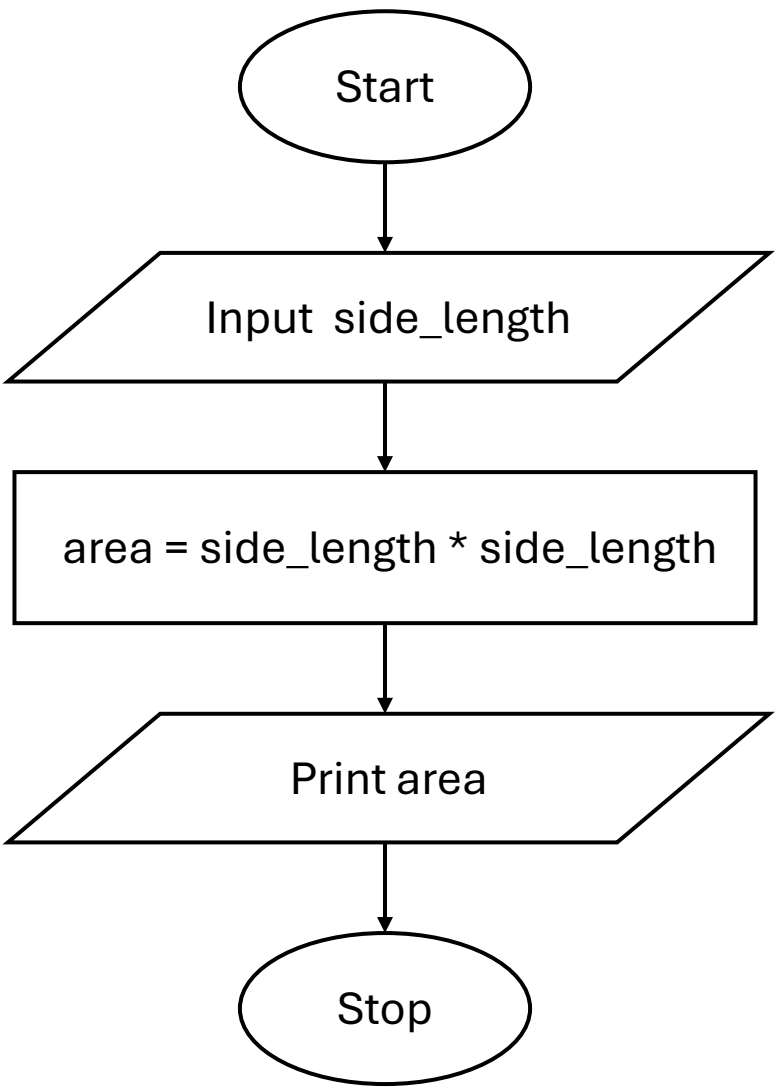
Experiment – 1

1.1.3 Calculate Area of the Square

- Algorithm

STEP 1 : Start
STEP 2 : Input side_length
STEP 3 : Calculate
area = side_length * side_length
STEP 4 : Print area
STEP 5 : Stop

- Flowchart



- Code

```
side = int(input())
area = side * side
print(area)
```

- Execution

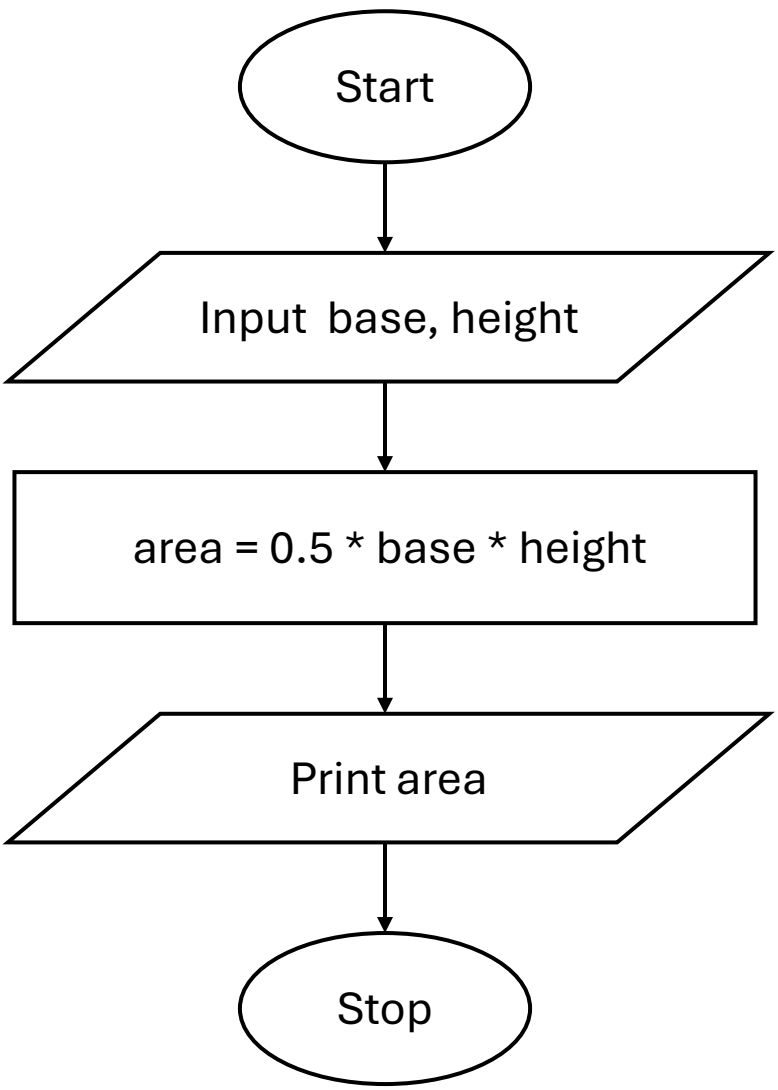
Experiment – 1

1.1.4 Area of Triangle

- Algorithm

STEP 1 : Start
STEP 2 : Input base, height
STEP 3 : Calculate
area = 0.5*base * height
STEP 4 : Print area
STEP 5 : Stop

- Flowchart



- Code

```
base=float(input())
height=float(input())
area=0.5*base*height
print(f"{area:.2f}")
```

- Execution

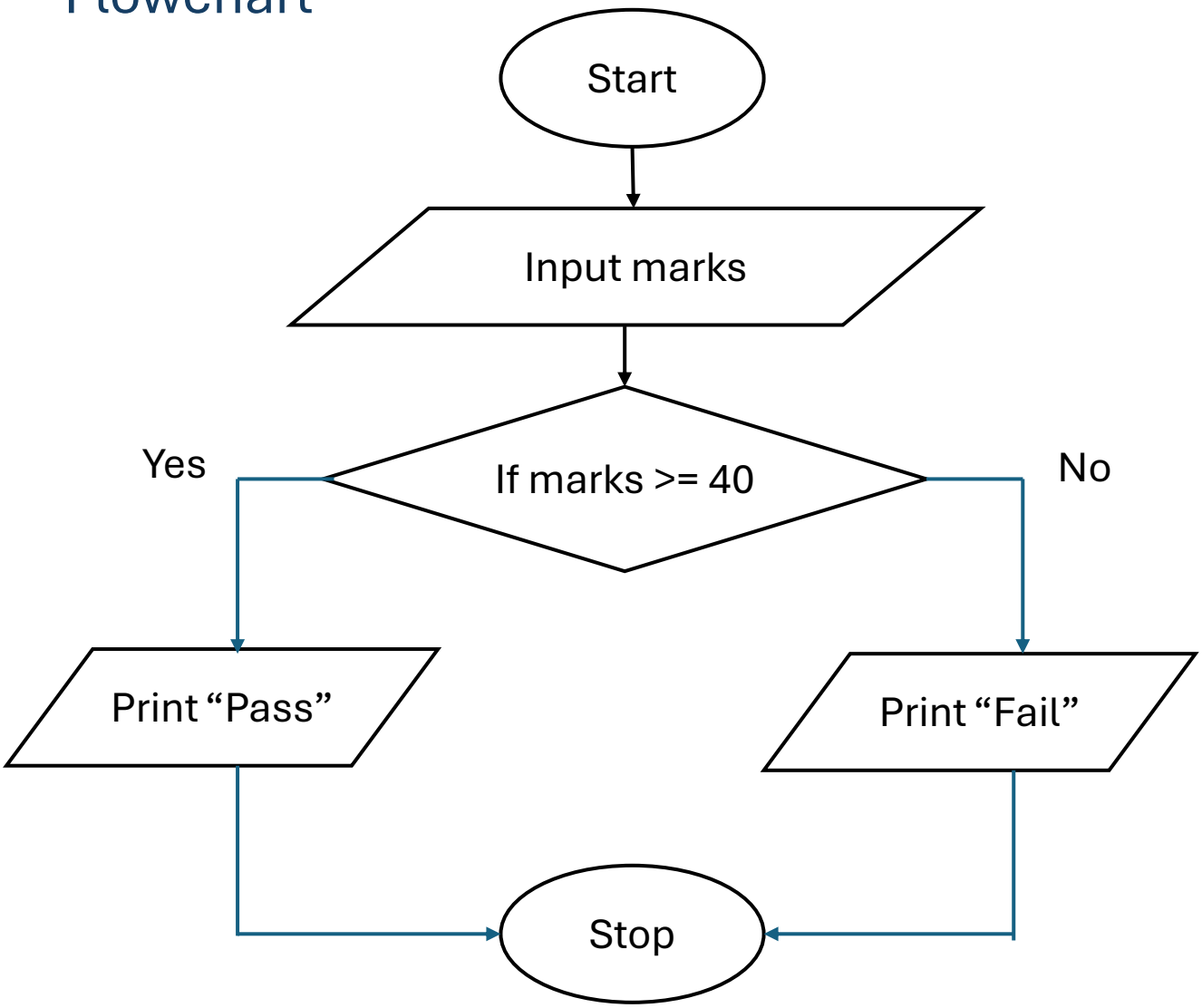
Experiment – 1

1.1.5 Student Pass or Fail status

- Algorithm

STEP 1 : Start
STEP 2 : Input marks
STEP 3 : Check condition
If marks ≥ 40
Print "Pass"
Else
Print "Fail"
STEP 4 : Stop

- Flowchart



- Code

```
marks=int(input())
if marks>= 40:
print("Pass")
else:
print("Fail")
```

- Execution