LAB:06

QUESTION:02

PROGRAM

- **16 feet and 75 degree**

```
from math import*
length_of_ladder=16
angle_form_by_ladder="75 degree"
height_of_wall="?"
angle=((75*3.142)/180)
angle=(sin(angle))
height=angle*length_of_ladder
print(height)
```

OUTPUT

15.455515858074026

Process finished with exit code 0

- **20 feet 0 degree**

```
from math import*
length_of_ladder=20
angle_form_by_ladder="0 degree"
height_of_wall="?"
angle=((0*3.142)/180)
angle=(sin(angle))
height=angle*length_of_ladder
print(height)
```

OUTPUT

0.00

Process finished with exit code 0

- **24 feet 45 degree**

```
From math import*
length_of_ladder=24
angle_form_by_ladder="45 degree"
height_of_wall="?"
angle=((45*3.142)/180)
angle=(sin(angle))
height=angle*length_of_ladder
print(height)
```

OUTPUT

16.972290884929595

Process finished with exit code 0

- **24 feet 80 degree**

```
from math import*
length_of_ladder=24
angle_form_by_ladder="80 degree"
height_of_wall="?"
angle=((80*3.142)/180)
angle=(sin(angle))
height=angle*length_of_ladder
print(height)
```

OUTPUT

23.636140191205424

Process finished with exit code 0