

Area of a right triangle:

Write your own program that shows the area **and** perimeter/circumference of the following shapes:

- Circle
- Square
- Rectangle

The formulas are:

Area of Circle = $\text{PI (or 3.14)} * \text{Radius} * \text{Radius}$

Circumference of Circle = $2 * \text{PI (or 3.14)} * \text{Radius}$

Area of Square = $\text{Length} * \text{Length}$

Perimeter of Square = $4 * \text{Length}$

Area of Rectangle = $\text{Height} * \text{Width}$

Perimeter of Rectangle = $2 * \text{Height} + 2 * \text{Width}$

[Challenge]**For all variables...**

Above the line where you assign the variable, print a statement to prompt the user to enter something

Ex:

```
print() # <--- Newly inserted
```

```
Length = ....
```

Then, where you assign the variable (Length =) replace its value with **int(input())**

Ex:

```
print() # Tell them to enter something
```

```
Length = int(input())
```

Talking Robot:

Write your own program where you are talking to a robot. This does not have to have many lines.

The program conditions are as follows:

- Make the robot say at least 2 things.
- Make you, the user, say at least 2 things.
- Store all the robot's text in a variable
- Save all your, the user's, text in a variable
- Have it be kind of like a conversation

This may be difficult as it is a bit vague but try your best and be creative! Of course I am willing to help.

[Challenge]

For all stored text variables...

Above the line where you assign the variable, print a statement to prompt the user to enter something

Ex:

```
print() # <--- Newly inserted
```

```
Response = ....
```

Then, where you assign the variable (Length =) replace its value with **str(input())**

Ex:

```
print() # Tell them to enter something
```

```
Response = str(input())
```