Variable Declaration

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Python is flexible about variable declaration. You do not need to give data type of a variable at the time of it's declaration.

a=5 (We can say here that "a" stores the integer 5.)

Valid:defined a variable 'a' and passed a value of 5 to it.

This statement has three parts:

- 1. Variable name
- 2. Assignment operator
- 3. Variable value

Why do we need variables?

- A program is essentially a manipulation of data.

- The logic is what you code.

- The variables hold the data.

- Operators act on variables.

Perimeter of a circle

Input: Radius (int or float)

Logic: 2 * Pi * Radius

Output: float

Lessons:

1. How to declare a variable?

2. How to use operators on it?

In Code

```
# Variable declaration. r is holding the radius.
r = input("Enter the radius: ") # input() gives you a string
r = float(r) # Type casting builtin for getting the float value of r
perimeter = 2 * 3.14 * r # Computation
print(perimeter)
```