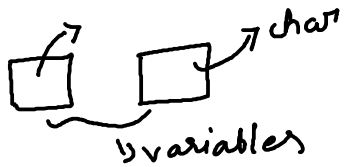


Variables

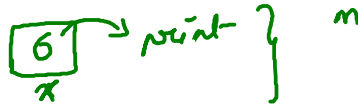
Sugar, pizza, Tea

PL

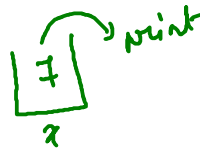


Variable: a variable is a storage location in a computer program that can hold a piece of data, and this data can change or be modified during the program's execution

```
int x;
x = 6;
cout << x;
```



✓ int x;
✓ x = 7;
✓ cout << x;



9 10
x y

✓ int x = 7;
✓ x = 8;
✓ cout << x;



✓ int x = 7;
x = x + 8; // 7 + 8
cout << x;

15 ✓
7
x

✓ int x = 6;
cout << x;
x = x + 8; // 6 + 8
✓ cout << x;

14 ✓
6
x

6
14



output
• 8
• 9
• 19
• 10

```
int x = 8;
cout << x << endl;
x = 9;
cout << x << endl;
x = x + 10;
cout << x << endl;
x = x - 9;
cout << x << endl;
```

9 + 10
19 - 9

① → prep → → // = //

Rules for naming variables

int ③

char ch ✓

float ch ✓

17 (a-z) (A-Z) ✓

int ageNumber ✓

27 (0-9) ✓ (starting x)

char ich ✗

char ch1 ✓

3) underscore _

int _num ✓

int num_num ✓

c -

4) - spaces X

int my Num X

5) @ % - +

X int myNum@ X

6) Reserved keywords

int int X
int char = 23 X

a-z, A-Z, (0-9), -

@ space, Reser first-

}