Variables

#include<stdio.h>
int main()
{ int a,b;

  return 0;
}

Variable. | a | | b | → Variable
memory name
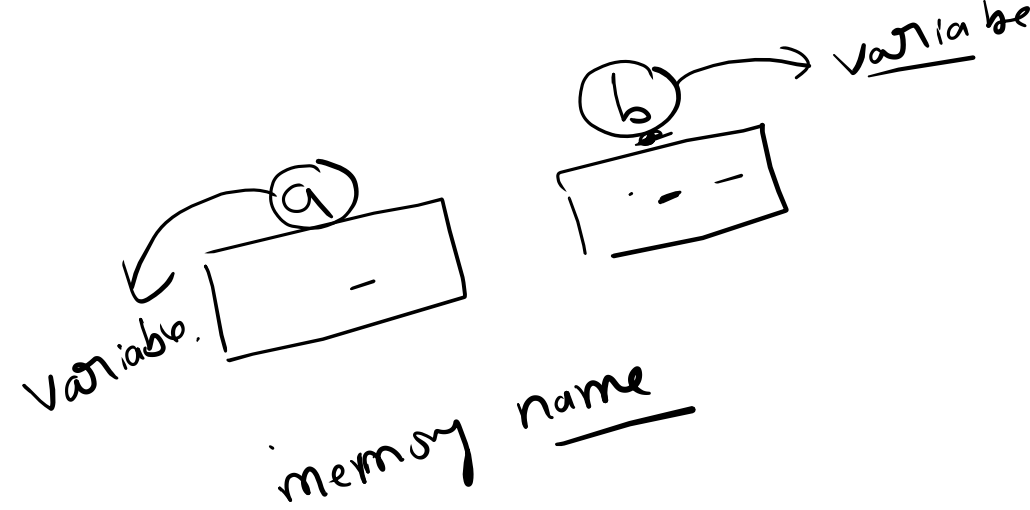
Syntax :

data-type variable_name;

```
#include <stdio.h>

int main()
{
    int a;          Declaration
    a = 50;         Assigning
    printf("Hello World");

    return 0;
}
```

a
| 50 | int
4B

1. Declaration-
2. Assigning-
3. Declaration + Assigning-

```c
main.c

1
2   #include <stdio.h>
3
4   int main()
5   {
6       int a = 40;
7       printf("%d",a);
8
9       return 0;
10  }
```

① Decla + Assigning

input

40

Rules:

① Variable can start letter's (∞) underscore (—)

Valid : _age, age_ , age , bank_id

Invalid : 1age, #temp, @age ❌ ❌ ❌

② can contains letters, digits and underscore's

Valid : age7 , Bank_id1

Invalid : 1age , Bank-id

③ Case Sensitive

Valid : age
↳ while caling age

Invalid : age
↳ while calling Age ❌

④ No keywords are allowed

⑤ Variable name length Should not exceed the length more than 31 characters

⑥ must declare befor use
↳ mandoury declare

```
[ int a ;
  char ch;
  flout f;  ]
```

C language
↳ 32 keywords

int
char
float
double → datatype
          (∞)
          keyword's