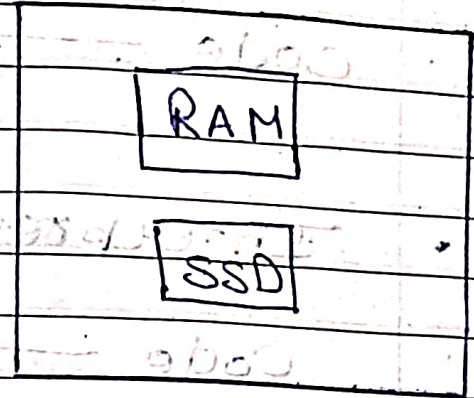


Java Script Foundation

Why languages

• RAM - Application that are running right now on a computer are actually running on a ram like - when you open VLC by double clicking on it. It basically on RAM in the form of 0 and 1

Computer



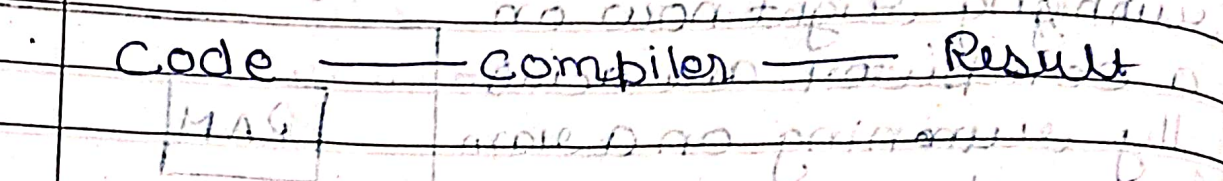
• SSD - The files that are stored in a PC right now are stored in SSD like - Images, video and other files etc

• Compiler - When we double click and open a application then compiler compiles the code in the form of 0 and 1 and that 01 code runs on RAM

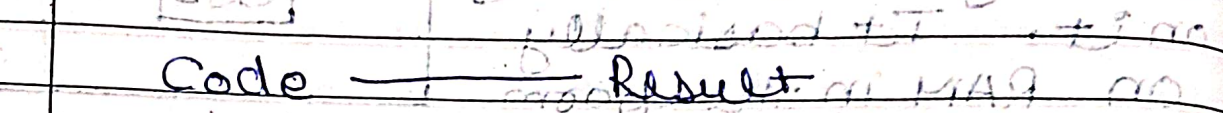
1 Languages are used to write applications
2 Developer write high level codes in these language

3 Every language has a compiler which converts the developer code into 01

• Compiled Languages



• Interpreted Language



	Compiled Language	Interpreted Language
1.	First need to compile, then need to run	usually go line by line
2.	usually don't compile if there is an error in the code	can run partially if the error comes later
3.	Eg - C++, Java	Eg - JavaScript, Python

Why JS is better than other languages

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Static

VS

Dynamic language

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    int number = 5;
```

```
    number = "Hello";
```

```
    cout << number << endl;
```

```
    return 0;
```

```
}
```

Benefit - More strict code

```
let number = 5;
```

```
number = "Hello";
```

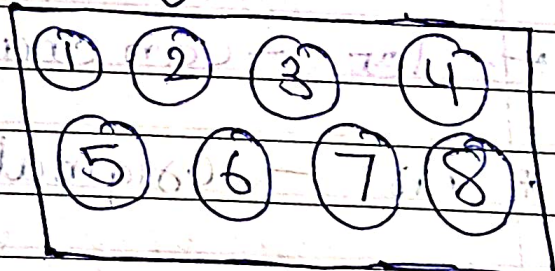
```
console.log(number);
```

Benefits - can move fast

Single Threaded nature of JS

JavaScript is restricted to single core

It cannot switch to other cores



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- There is way to make it use all capacity of your machine

More Practically

- JS runs line by line
- One line runs at a time.

Simple Primitives

3 ways to define a variable

- let
- var
- Const

* Const - Const is constant you can only define it once if you will try to change its value it will throw error

* let - can change its value

* var - original way to define a variable

Let, Var, Const codes are there in notion

Let - define a variable whose value is changing

Const - when ever you want to define a variable whose value are not changing

Data Types

String, Numbers and Booleans

There are more but these are common
Codes are present in notion notes