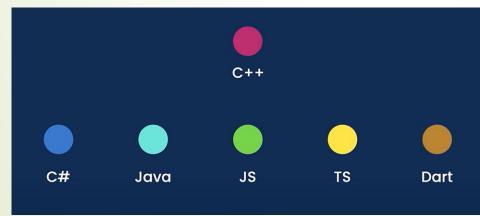
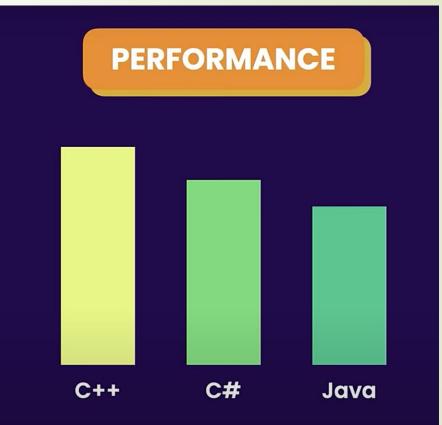
C++ session 1

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APPLICATIONS OF C++

- High-performance applications
- Video games
- Device drivers
- Web browsers
- Servers
- Operating systems











IDE and Compiler

- -GCC (GNU Compiler Collection):
 - **■** G++ for C++
 - Gcc for C
- Clang (C Language Family Frontend for LLVM)
- MinGW-w64: Windows toolchain with GCC

How to set up C++ in Visual Studio Code

C++ programming with Visual Studio Code

- Alternatives:
- Download dev c++

First C++ Application

- case sensitive
- comments // and /* */
- more white spaces aren't important

```
1 int main(){
2
3
4
5
6 return 0;
7 }
```

Create These outputs Cout(Character out)

- + (;)
- Hello World!
- my name is Mohammadreza
- my name is
- Mohammadreza (both ways)
- "Hello Ali"
- tab-backspace-... \t \b \n \"
- 3 (string and number)
- result of 3+4,3x4,4-3,4%3....
- 3+4=7

```
01 > 	 HelloWorld.cpp > 	 main()
       // #include <Arya.h> //we can create our own library
       #include <iostream>
       using namespace std;
       int main()
            // one line comment
            // printf("hello world!"); // C version
            std::cout << "hello world!";</pre>
            std::cout << "My name is \n mohammadreza";</pre>
            /*std::cout<<"My name is";</pre>
            std::cout<<"Mohammadreza";*/</pre>
            cout << "My name is";</pre>
            cout << endl;</pre>
            cout << "Mohammadreza";</pre>
            cout << endl << "My name is" << endl << "Mohammadreza";</pre>
            cout << "\nMy name is\nMohammadreza";</pre>
 31
            cout << "\n\"hello\tali\"" << endl;</pre>
            cout << "3" << endl;</pre>
            cout << 3 << endl;</pre>
            cout << 3 * 4 << endl;</pre>
            cout << 3 + 4 << endl;
            cout << 4 - 3 << endl;</pre>
            cout << 4 % 3 << endl;</pre>
            cout << "3+4=" << 3 + 4;
            return 0;
```