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In these days , we use High-end programing languages which are translated to machine language ( Binary code 0 1) by softwares like compilers and interpretures . But what is the difference between them ?

**Compilers :** They are app. Softwares which translate programming language to machine language as Visual Studio.

Compilers are used to translate old languages like C and its extensions and java

Compilers translate all the code at one time and have debugging to see if there an error the code will not run .

Debuggers is important because it searches for errors and specifying their line to be fixed

Compilers is known for being faster at running than interpreter

**Interpreter :** They are app. Softwares which translate programming language to machine language as Visual Studio code

Interpreters are used to translate languages like python and php and java script

Compilers translate the code line by line so errors will not affect the running of the code

It doesnot have debuggers so you wont know the line of error automatically

Interpreter is known for being slower at running than Compilers

**Transpiler :** They are app. Softwares which translate High programming language to another High language

transpilers are used to be known as source to source compilers

Used to decrease time waste by auto translating codes to another lang. to use on another platforms

**Preperations**

**CONDITIONAL STATEMENTS :** is used to excute block of codes when requirement is met by using If or Switch

1. If : if is used to find if requirement is true , excute specified codes . Also there is else if to excute alternative requirement and codes . Else to excute code when neither requirement is met

Ex: If ( name = “Ahmed”){

Console.log(“Hello Ahmed”)

} else if ( name = “sief”) {

Console.log(“hello sief”)

} else {

Hello user

}

If (condition){

Code

}

Switch is like if but have 1 expression and many cases so we choose case that will give specific code returned

Switch (choose number){

Case 1 : hello ;

Break;

Case 2 : goodmorning;

Break;}