

## High Level Programming Languages

All high level programming languages are in simple English

High level languages are portable. Portability allows developing and running applications on various system or platforms.

**Example:** C,C++,Java,C#.Net, Python

## What is translator?

Translator is software, which translates or converts instructions of one language to other language

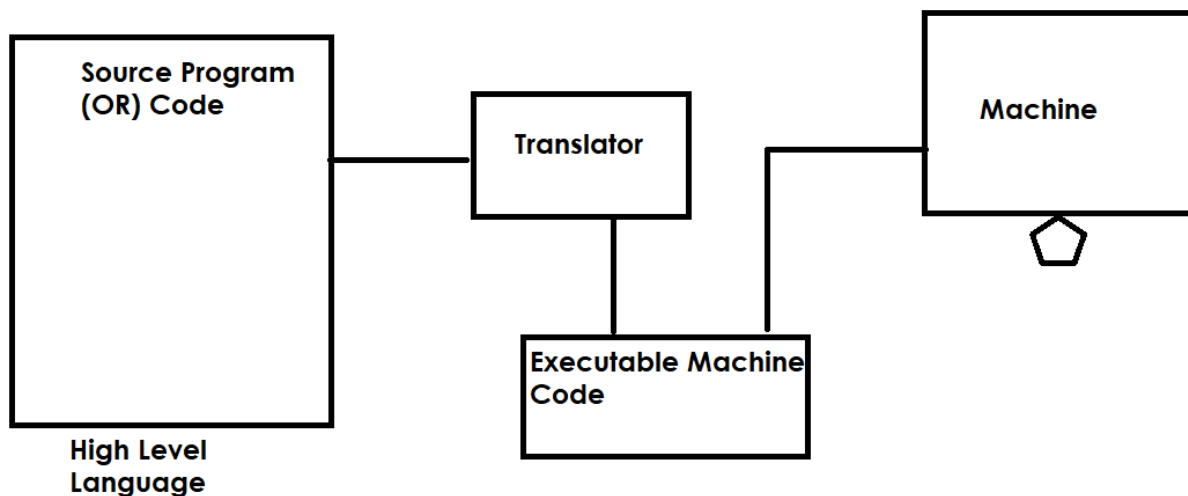
## Types of translators

1. Interpreter
2. Compiler

## What is program?

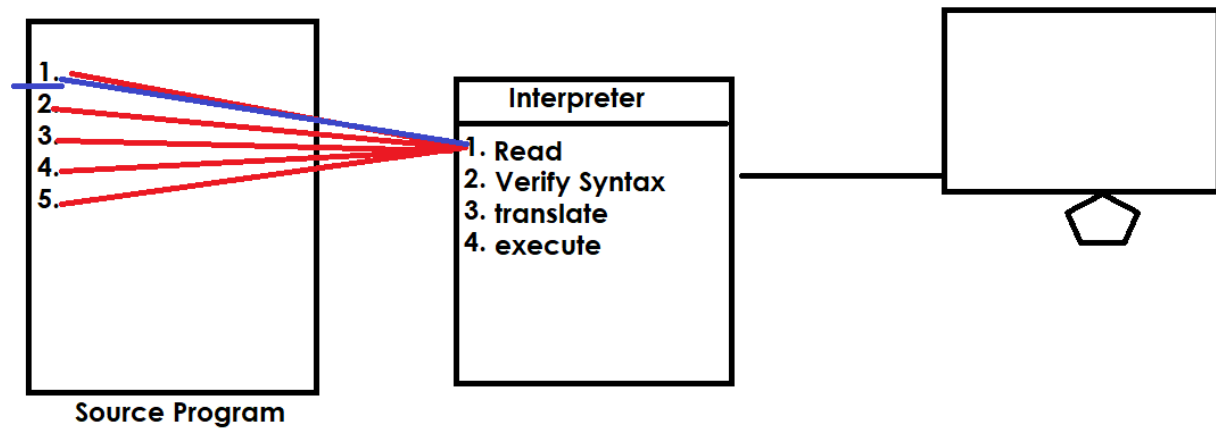
A program set of instructions executed by computer

A program is file, it contains set of instructions.



## What is interpreter?

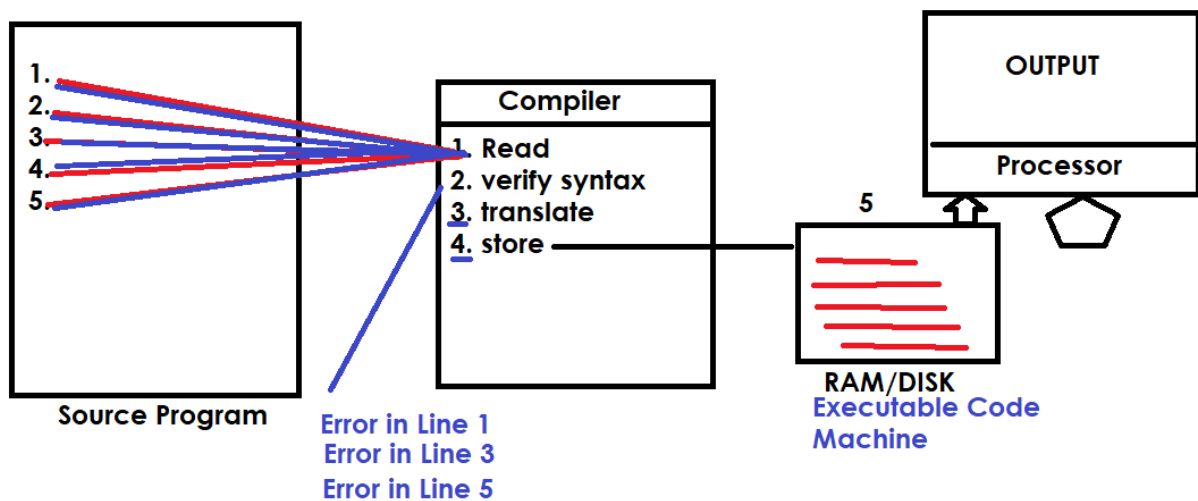
Interpreter is a translator which translates and executes instructions line by line



Interpreter stops translating if there is an error in one line.  
 Interpreter shows only one error

## Compiler

Compiler is translator which translate whole program and execute



What is difference between compiler and interpreter?

Interpreter	Compiler
Interpreter translates and executes instructions line by line	Compiler translates whole program and execute

Interpreter stops translating and executing if there is an error in one line	Compiler shows all the errors exists within program
Interpreter does not store translated code	Compiler stores translated code, it does not required to translate source code every time before execution

## **Scripting Languages**

Scripting language is one type of programming language but used for writing scripts.

Scripting languages are embedded within another language or software's.

### **What is script?**

A script is program executed within another program.

A programming language can have the features of scripting languages

Example: java script, php, perl, ...

## **Programming paradigm**

A programming paradigm defines set of rules and regulation for writing code or programs.

1. POP (Procedural Oriented Programming)
2. MOP (Modular Oriented Programming)
3. FOP (Functional Oriented Programming)
4. OOP (Object Oriented Programming)

=====

## **Introduction to Python**

---

1. Applications of Python
  2. What is python?
  3. Python History
  4. Python Features
  5. Python Versions
  6. Python Software
  7. Working with Python (modes)
- 

## **Applications of Python**

---

In real time or software companies uses python for developing which type of software's or applications

In real time or in software companies develop software using language with libraries or frameworks

## **What is library?**

A library is predefined program with pre defined functionality.  
Library provides various functions for developing different types of applications

codewithsatishgupta