

TYPE CHECKING

Type checking is a program analysis that verifies something about the types that are used in the program.

Type checking could happen at compile-time or at run-time.

There are two types of type checking:

1. Static type checking
2. Dynamic type checking

1) Static type checking: When variable data type is defined.

For example, in Java

```
int age = 20;
```

It is performed at compile time.

2) Dynamic type checking: When variable data type is not defined.

For example, in Python

```
age = 20;
```

It is performed at run time.

Video lecture on Type Checking

References:

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3. Tucker, "Programming Languages: Principles and paradigms ", Tata McGraw -Hill.
4. E Horowitz, "Programming Languages", 2nd Edition, Addison Wesley

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