

## Section - 03

Q.1

Ans:-

Polymorphism is the capability of a method to do different things based on the object that it is acting upon. In other words, polymorphism allows you define one interface and have multiple implementations.

\* static polymorphism :- polymorphism that is resolved during compilation time is known as static polymorphism. Method ~~of~~ overloading is an example of compile time polymorphism.

① Method ~~of~~ overloading :- this allows us to have more than one method having the same name, if the parameters of methods are different in number, sequence and data types of parameters.

⊗ Dynamic polymorphism :- Dynamic polymorphism is a process in which a call to an overridden method is resolved at runtime, hence it is called run-time polymorphism.

Ex:- In this example we have two classes ABC and XYZ. ABC is a parent class and XYZ is a child class. The child class is overriding the method myMethod() of parent class. In this example, we have child class object assigned to the parent class reference so in order to determine at run time.

Tuple in python:- A tuple is a collection which is ordered and unchangeable. In python tuples are written with round brackets.

Exple of tuples:-

# Empty tuple

my - tuple = ()

print (my - tuple).

# Tuple having integers

my - tuple = (1, 2, 3)

# Tuple with mixed data types.

my - tuple = (1, "Hello", 3.4)

# Nested tuple

my - tuple = ("mouse", [8, 4, 6], (1, 2, 3)).