

Section - 3

Q1 What is Polymorphism? Define dynamic and static polymorphism? Define unpacking sequence with example? Define Tuple in python with example?

Ans 1. Polymorphism in programming refers to implementation of a function in many forms based on the data type.

(i) When call to a polymorphic function happen at the run-time, it is known as dynamic polymorphism.

(ii) In static polymorphism method / function call takes place at the compile time, function overload is static polymorphism.

* unpacking Sequence

When we take an example of list of strings.

```
list = ["abc", "xyz"]
```

```
var1, var2 = list
```

In the above example

"abc" is assigned to var1
"xyz" is assigned to var2

In this manner we can define unpacking sequence as assigning values from list to various variables.

** Tuple :- A ordered collection of objects is known as a tuple

tuple = ('happy', 'quiz')

tuple :- tuple are enclosed in parentheses and they are immutable i.e. the value of tuple cannot change.