1. **Define Object Oriented Programming Language ?**

* It is a programming paradigm based on the concept of "objects", which can contain data, in the form of fields, and code, in the form of procedures .

1. **List down the Benefits of OOP ?**

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* Make the development to Convenient use
* Faster
* Less time consuming
* Provide users to hide the data by using encapsulation method
* Allow developer to prevent data from end-user by using abstraction .
* Reusability

1. **Differentiate between function and method ?**

* The main difference is
* Method:
  + Method is called by its name, but it is associated to an object (dependent).
  + A method is implicitly passed the object on which it is invoked.
  + It may or may not return any data
* Function:
  + Function is block of code that is also called by its name. (independent)
  + The function can have different parameters or may not have any at all. If any data (parameters) are passed, they are passed explicitly.
  + It may or may not return any data.

1. **Define the following terms:**

* Class : Collection of object and attributes .It is a description of Object , which define properties and methods of an object .
* Object : A real world entity is called Object .it is an instance of a Class .
* Attribute : the data or variables which is defined in a class is called attributes .
* Behavior : Behavior testing simply means that we should test how an application behaves in certain situations.

1. **Write a code in python in which create a class named it Car which have 5 attributes such like (model, color and name etc.) and 3 methods. And create 5 object instance from that class .**

* **The Code and solution will be in File named as ‘Assignment 6’.**