**Que:-3**

**What is the difference between OOP and POP?**

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| **Parameter** | Object Oriented Programming(OOP) | Procedure Oriented Programming(POP) |
| **Definition** | OOP refers to Object Oriented Programming. It deals with objects and their properties. | POP refers to Procedural Oriented Programming and deals with programs and functions. |
| **Approach** | An object-oriented program uses the bottom-up approach. | A procedure-oriented program uses the top-down approach. |
| **Access Control** | Access control is supported by the means of access modifiers. The access specifiers such as public, private and protected are used. | No access modifiers are supported. |
| **Data Hiding** | Data can be hidden using encapsulation. | There is no data-hiding mechanism. Data is globally accessible, as there are no access specifiers. |
| **Entity Linkage** | Object functions are linked through message passing. | Parameter passing is involved in message passing. |
| **Polymorphism** | Method overloading and method overriding are used in OOP to achieve polymorphism. | POP does not support polymorphism. |
| **Virtual Function and Inheritance** | OOP supports inheritance and virtual functions and virtual classes via it. | There is no concept of inheritance in POP and neither does it support the use of virtual classes or virtual functions. |
| **Code Reuse** | OOP supports code reusability. | No code reusability is provided by POP. |
| **Operator Overloading** | It is allowed in OOP. | Operator overloading is not allowed in POP. |