Python

Assignment Questions

Assignment

Q1. Explain Class and Object with respect to Object-Oriented Programming. Give a suitable example.

Ans: - Class is an object constructor and blueprint for creating objects.

Example: CAR as a class that has characteristics like Steering Wheel, Seats, Brakes, etc

Object is an instance of class, object is a real world entity,

Example: pen,laptop,mobile,car etc

Q2. Name the four pillars of OOPs.

Ans: -The four pillars of Oops,

- 1.Inheritance
- 2.Polymorphism
- 3. Encapsulation
- 4.Abstraction

print(p1.age)

```
Q3. Explain why the init () function is used. Give a suitable example.
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Ans: -
__init__() function is use for assign values to the object properties

Code: >>>Class Person():

Def __init__():

Self.name = name

Self.age = age
p1=person( "aanand",27)
print(p1.name)
```

Q4. Why self is used in OOPs?

Ans: - The self variable is used to represent the instance of the class which is often used in object-oriented programming. It works as a reference to the object. By using the "self" we can access the attributes and methods of the class in python.

Q5. What is inheritance? Give an example for each type of inheritance.

Ans:- Inheritance allows us to define a class that inherits all the methods and properties from another class

Parent class is the class being inherited from, also called base class.

Child class is the class that inherits from another class, also called derived class.

Note: Create your assignment in Jupyter notebook and upload it to GitHub & share that GitHub repository link through your dashboard.

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