

## OOPS Lab Programs: List of Experiments

1. WAP to create a class, object and calculate salary of Employees.
2. WAP to implement Call of Reference and reverse an array using Swap function
3. WAP to Calculate the area of Circle and Square.
4. WAP to implement Single, Multiple and Multi-level Inheritance.
5. WAP to implement Polymorphism by using Sum function of 2 and 3 variables.
6. WAP to implement Abstraction using Calc Class and perform different operations( add,subtract,multiply and divide).
7. WAP to implement Overloading using Motor as a class and it should calculate its monthly EMI if principle is passed as a parameter (take one P(int) and another P(float).**rate=15 % and time=2 years.**
8. WAP to implement Overriding using Motor (base class) and Car (derived class) and it should show Car details and calculate EMI (P=3Lacs , r=15% and t = 2years)
9. WAP to implement Encapsulation.Create class Cylinder and function to calculate Volume (be sure to protect variable volume from outside world.)
- 10.WAP to implement constructors and destructors of a class.Create a Animal Class with its attributes.(type= mamal,scavenger,arial,amphibians,aquatatic,etc **and** eating habit= carnivorous,herbibvorous, etc)
11. WAP to implement Genralization as extention. Use class person with name,age and gender as variables. Extend it by using subclass Student,Teacher and Admin\_Staff.
- 12.WAP to implement Class,object in java and calculate perimeter() and area() of a rectangle( using variable input) and it should return its value to main function.
- 13.WAP to implement Overloading and Overriding in JAVA.(use Q7 and Q8)
- 14.WAP to implement friend function in Java or C++ . Use class Sphere with radius as variable and friend function cylinder (with given height) and calculate the Volume of both.