

Practice Questions for today's Lab

1. Create class Address with following -
area, city, pincode
Create class Student having -
rno, name, permanentAddress, currentAddress
Create object with Parameters like -
Student s1(101,"sweta","Shivaji Nagar","Satara",411009,"Pashan","Pune",411003)
permanentAddress currentAddress
2. Create Emp class with following attributes -
eid, name, address, salary
Create vector and implement following -
 1. Add Record
 2. Display all
 3. Search
 4. Delete
 5. ModifyUse Menu Driven Program
3. Create class Account with -
DM - acno, name, balance
MF - Constructors, Accept, Display
withdraw, deposit
Handle following exceptions -
Withdraw - lowBalance - if balance < 1000
Deposit - PanCard Require - if amt >= 50,000
4. Create class Employee with following attributes -
Emp - id, name, dateofpinning (object of date clock) , salary
Manager - inherit Manager from Employee having extra attribute - ta(travelling allowance), Hra (house rent allowance)
SalesPerson - inherit SalesPerson from Employee having extra attribute - sales, comn
WageEmp - inherit WageEmp from SalesPearson having extra attribute - rate
Implement Calculate for all classes Emp → pure virtual
5. Inherit Sales Manager class from Manager and SalesPerson - use calculate_salary
-Virtual base class
6. Implement Box class having height and width. Calculate area of box.
Overload → > , <
Eg. Box b1(2, 5); Box b2(3, 5); if (b1>b2) → here > is overloaded

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7. Implement 2 classes - Math1 Math2
 - Add(int, int), Sub(int, int) - Mul(int, int), Div(int, int)
 - CalArea() - CalArea()
 Now class Calculator (inherits both Math1 and Math2)
 And call CalArea() in Calculator (diamond problem) - solve the problem
8. Create Complex class and overload the following operators -
 Complex c1(10, 20)
 Complex c2 = c1++; ++ is overloaded
 Complex c3 = ++c1; same ++ is overloaded

 Complex c4 = c1 + 5;
 Complex c5 = 5 + c1;

 cout<<c5; << is overloaded
 (solve by using friend functions)
9. Create Book class and implement the following using file -
- Add Book
 - Display all
 - Display specific (pos) - using (tellp, tellg)
 - Delete (According to BookId)