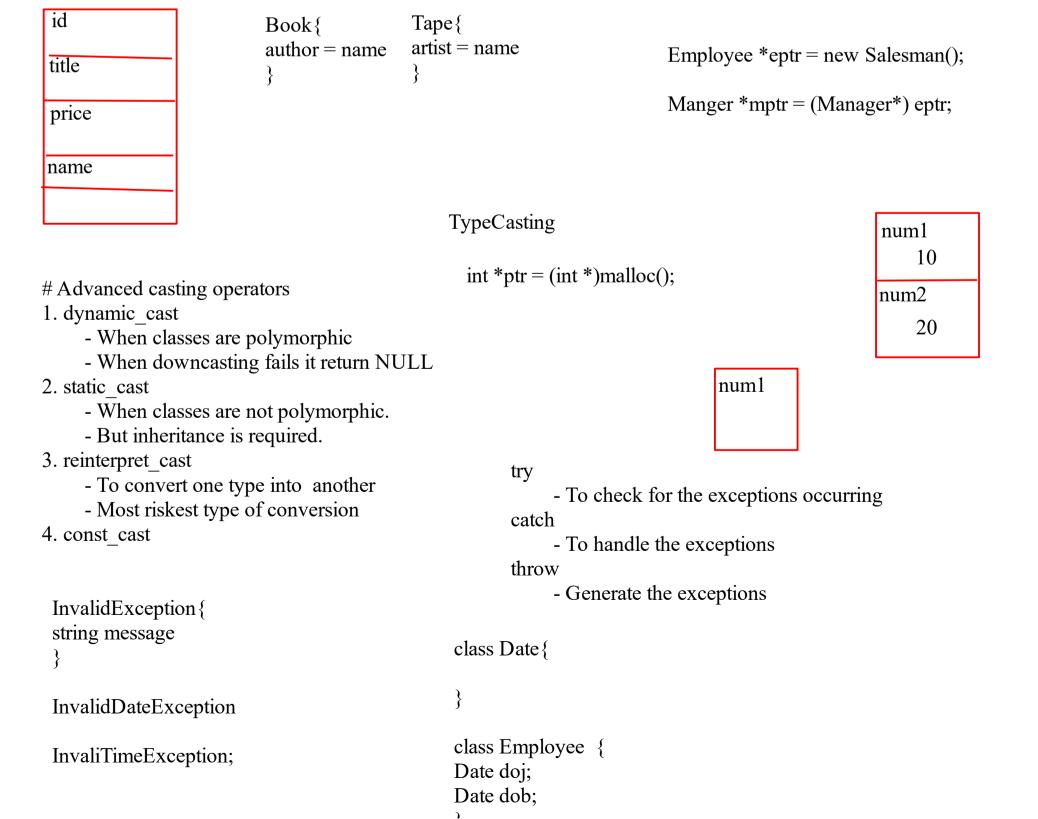


In case of upcasting to make sure the derived class destructor gets called make the base class destructor as virtual



```
int main(){
Employee *arr[10];
int index=0;

a. add Manager
    if(index<10){
    arr[index] = new Manager();
    arr[index]->accept();
    index++;
    }

b. display all salesman
    for(i=0;i<index;i++)
    if(typeid......salesman)
    arr[i]->display();
}
```

Virtual Destructor

- When upcasting is done, when the object goes out of scope the the destructor of the base class gets called instead of derived class.
 - The dtor gets called by looking at the pointer that is created and not on object
 - To call the derived class dtor i.e to call the dtor by looking at the object that is created declare the base class dtor as virtual

Advanced Casting Opeartor

- 1. dynamic_cast
- 2. static_cast
- 3. reinterpret_cast
- 4. const_cast

Exception Handling

- -To sperate business Logic form Error Handling Logic
- Keywords
 - 1. try -> To check the exceptions
 - 2. catch -> To handle the exceptions
 - 3. throw -> To generate the exceptions
- Every try should have atleast 1 catch block
- try can have multiple catch block
- Generic catch block can handle all the type of exception, hence it should be provided at the last in the catch block series
- Nested try-catch block

Template