```
# Mini Teleron: • Hen composition, hen townerforce dos nesses science bosto burnesse var

• Derived circs happia governo onun vandelus boste aloss da happia gevra fince derived comodus base.

Somo derived produkt member

Sono advived a for agricus.
```

```
class Base
12
13
    {
    public:
         Base()
             std::cout<< "Base constructor\n";</pre>
          ~Base()
             std::cout<< "Base destructor\n";</pre>
 24
    };
 27 class Der : public Base
 28 - {
 29 public:
          Der()
              std::cout<< "Der constructor\n";</pre>
           ~Der()
              std::cout<< "Der destructor\n";</pre>
 37
38
 39 };
     int main()
           Der myDer; return 0;
Base constructor
```

Der constructor

Der destructor Base destructor

```
• Sirai alerde: 1. eger versa, bose member

2. bose eter

3: eger versa, denad nember

4: denad eter

5: We tern tits throids thousalors
```

```
□class Base {
    public:
        Base(int);
};

□class Der : public Base {
    public:
    };

I

□class SDer : public Der {
    public:
        SDer(): Base(0) {}
};

    sper, dreut oldet Gre'; bayle into adoner.
```

```
· Copy Constructor:
```

```
class Base {
public:
    Base()
          std::cout << "Base default ctor\n";</pre>
     Base(const Base&)
          std::cout << "Base copy ctor\n";</pre>
                                                       Base default ctor
                                                       Base copy ctor
 };
                                                       D:\KURSLAR\MART2022\Release\MART2022.e;
                                                       Press any key to close this window .
  class Der : public Base {
      -> Decired dossin copy arekadorini
         compiler dolar H. ett.
   int main()
       Der der1;
        Der der2 = der1;
```

Der 1010 copy ever upzsaydılı Tiler degisirdir.

Bu durinda der , tops construct editse bile, Default Les Cognilians

#### · Eger Copy Constructor , Derived from Biz your grow

### Move Constructor. -> Copy atox obtain durumun aynısı, move atar icin de gocerli

### · copy Assignment:

```
class Base {
public:
    Base& operator=(const Base&)
    {
        std::cout << "Base copy assignment\n";
        return *this;
    }
};

class Der : public Base {
public:
    Der& operator=(const Der&other)
    {
        Base::operator=(other);
        return *this;
    }
};

aint main()
{
        Der x, y;
        x = y;
}</pre>
```

- Nic bir seville line belittimenaire roginer, base capy estioner; boyle agricultism.

  > x=y ikist de Der texende
  - · Atternatif olerak style be upcost syphebilist.

```
class Der : public Base {
public:
    Der& operator=(const Der&other)
    {
        *(Base*)this = other;
        return *this;
    }
};
```

```
* Mave Assignment:
```

```
public:
    Base& operator=(Base&&)
    {
        std::cout << "Base move assignment\n";
        return *this;
    }
};

class Der : public Base {
    public:
        Der& operator=(Der&& other)
        {
            Base::operator=(std::move(other));
            return *this;
        }
}</pre>
```

## > Motorotmo:

```
eğer şu 3 işlevden biri bildirilmiş ise derleyici sınıfın move member'larını yazmaz

copy ctor
move ctor
destructor

eğer şu 2 işlevden biri bildirilmiş ise derleyici sınıfın copyt member'larını delete eder

move ctor
move assignment
```

#### \* Run-Time Polymorphism:

d

- o concrete class -> some sinf
- · abstract class is gazet simil. It base class take feel very. It bar sarce yourself earlyn.
- · polymorphic doss 3 -> bose aloss interface verir. Biz intersale override edition,

```
public:

void takeoff();

virtual void land(); //virtual functions

virtual void fly() = 0; //pure virtual function

};
```

#### · Function Overriding:

-> Eger negri Convergence cognicage run time also bourtenisse lake brinding. Finetian override temporen lake brinding

· const luldirim de imazono parquesi override eden de censt lullamali

Derived closs in 14 finction virtual obook devisate day

Belictimes zerndo dogil.

# -> Virtual Dispetch:

· Toban sinct parnter, teremis sinct nemeral gastressist referens 1 /1 /1 /1 bastenossist

```
Der myder;

Base& baseref = myder;

baseref.vfunc();

Base& baseref.vfunc();
```

Foliat Contragon, bosenessession tendestyle agriculties jurtual disposen desirge grown.

sodece himter no continue

s bu daya Object slimps'e swap Near

