# Credit name: Inheritance and Polymorphism
# Reflection log: UEmployee

```java
private String empname;
private double sal;
private String firstName,lastName;

public UEmployee(String fN, String lN, double sall)
{
    firstName = fN;
    lastName = lN;

    empname= fN +  " "+lN;

    sall = sal;
}
public String toString()
{
    String empstuff;

    empstuff = "The employee's name is " + empname + "and the salary is " + sal;

    return empstuff;
}
//obtainer

public String getempname()
{
    return(empname);
}

public Double getsal()
{
    return(sal);
}


//modifiers
public String setempname(String E)
{
    empname = E;
    return(empname);
}

public Double setsal(Double S)
{
    sal = S;
    return(sal);
}
```

I set up the variables and the methods for Uemployee

```java
package Masteries_UEmployee;

public class Staff extends UEmployee{

    private String Title;


    public Staff(String fN, String lN , double sall, String title) {
        super(fN, lN, sall);
        Title = title;
    }

    public String gettitlename()
    {
        return(Title);
    }

    public String toString()
    {
        return(super.toString() + "the job title is " + Title);
    }

    public void settitlename(String d)
    {
        Title = d;
    }



}
```

After I set up Staff extended it to UEmployee and set it up

```java
package Masteries_UEmployee;

public class Faculty extends UEmployee{

    private String dd;

    public Faculty(String fN, String lN, double sall, String d) {
        super(fN, lN, sall);
        dd=d;
    }

    public String getdep()
    {
        return(dd);
    }

    public String toString()
    {
        return(super.toString() + "the department is " + dd);
    }

    public void setdep(String ddd)
    {
        dd = ddd;
    }


}
```

After I set up faculty with its toString and its method

```java
package Masteries_UEmployee;

public class Staff extends UEmployee{

    private String Title;


    public Staff(String fN, String lN , double sall, String title) {
        super(fN, lN, sall);
        Title = title;
    }

    public String gettitlename()
    {
        return(Title);
    }

    public String toString()
    {
        return(super.toString() + "the job title is " + Title);
    }

    public void settitlename(String d)
    {
        Title = d;
    }



}
```

I made the Staff class along with its job title and to String

```java
package Masteries_UEmployee;

public class Faculty extends UEmployee{

    private String dd;

    public Faculty(String fN, String lN, double sall, String d) {
        super(fN, lN, sall);
        dd=d;
    }

    public String getdep()
    {
        return(dd);
    }

    public String toString()
    {
        return(super.toString() + "the department is " + dd);
    }

    public void setdep(String ddd)
    {
        dd = ddd;
    }


}
```

I made the faculty class along with its methods and its toString.

```java
package Masteries_UEmployee;

import java.util.Scanner;

public class uni {

    public static void main(String[] args) {
        // TODO Auto-generated method stub


        Faculty emp1 = new Faculty("Logan", "lahhhh", 10000, "teachman");
        Staff emp2 = new Staff("grayyson", "nocluelast", 15000, "hihihih");


        Scanner input = new Scanner(System.in);


        String action;
        int empnum;
        double payArg;

        UEmployee emp=emp1;


        do
        {
            System.out.println("\n (E)mployee or (C)hoose or (Q)uit");
            System.out.println("Enter your choice plz");
            action = input.next();

            if (action.equalsIgnoreCase("C"))
            {
                System.out.println("enter Employee num, 1 or 2");
                empnum = input.nextInt();

                switch(empnum)
                {
                case 1: emp = emp1; break;
                case 2: emp = emp2; break;


                }
```

I then transferred the code from the store class to my test uni class and changed it to work for faculty and staff.