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| File:COMSATS new logo.jpg - Wikimedia Commons | **Subject:**  **Object Oriented Programming**  **submitted by:**  **Daoud hussain**  (Sp21-bcs-102)  **submitted to:**  **Mam Saneeha AAmir**  **date of submission:**  **March 27 , 2022** |

1. Employee Class:

Employee Date:

Runner Employee:

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1. CommisionEmployee Class:

public class CommisionEmployee{

String firstName;

String lastName;

String ssl;

double grossSales;

double commisionRate;

public CommisionEmployee(){

//Default Argument Constructor

}

//Full-Argument Constructor

public CommisionEmployee(String fn, String ln, String sslArg, double gs, double cr){

firstName = fn;

lastName = ln;

ssl = sslArg;

grossSales = gs;

commisionRate = cr;

}

//Method to display Parent class data

public void display(){

System.out.println("First Name: " + firstName);

System.out.println("Last Name: " + lastName);

System.out.println("SSL: " + ssl);

System.out.println("Gross Sales: " + grossSales);

System.out.println("Commision Rate: " + commisionRate);

}

//Method to calculate Parent class earning

public double calculateEarning(){

double earning = grossSales\*commisionRate;

return earning;

}

}

BasePlusCommisionEmployee Class:

public class BasePlusCommisionEmployee extends CommisionEmployee{

double salary;

//Child Class Object

public BasePlusCommisionEmployee(String fn, String ln, String ssl, double gs, double cr ,double sal){

super(fn,ln,ssl,gs,cr);

salary = sal;

}

//Reseting Value of Salary in child class

void setSalary(double sal){

if(sal != 0){

salary = sal;

}

}

//Geting Value of Salary from child class

double getSalary(){

return salary;

}

//Method to display Child class data

public void display(){

super.display();

System.out.println("Salary: " + salary);

System.out.println("Earning: " + calculateEarning());

}

//Method to calculate Child class earning that is parent earning + child salary

public double calculateEarning(){

return super.calculateEarning()+salary;

}

}

BasePlusCommisionEmployee Runner:

public class Runner{

public static void main(String[] args) {

BasePlusCommisionEmployee bpce1 = new BasePlusCommisionEmployee("Daoud","Hussain","SP21",20.5,3.4,20000);

bpce1.setSalary(25000);

bpce1.display();

bpce1.calculateEarning();

}

}

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1. Person Class:

Person Address:

Person Runner:

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4. Book Class:

Book Runner:

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Pizza Class:

Pizza Runner:

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