ASSIGNMENT[26-05-2022]

DIVYA J

CODE:

**public** **class** TaxCalculator {

String empName;

**boolean** isIndian;

**double** empSal;

**double** taxAmount;

**public** TaxCalculator(String empName, **boolean** isIndian, **double** empSal) {

**this**.empName = empName;

**this**.isIndian = isIndian;

**this**.empSal = empSal;

}

**public** **double** calculateTax() **throws** Exception {

**if** (isIndian==**false**) {

**throw** **new** CountryNotValidException(isIndian);

}

**if** (empName==**null**) {

**throw** **new** EmployeeNameInvalidException(empName);

}

**if** (empSal>100000) {

taxAmount = empSal\*8/100;

}

**if** (empSal>50000&&empSal<100000&&isIndian==**true**) {

taxAmount = empSal\*6/100;

}

**if** (empSal>30000&&empSal<50000&&isIndian==**true**) {

taxAmount = empSal\*5/100;

}

**if** (empSal>30000&&empSal<50000&&isIndian==**true**) {

taxAmount = empSal\*4/100;

}

**else** {

**class** TaxNotEligibleException **extends** Exception {

**public** TaxNotEligibleException(){

**super**();

}

}

}

**return** taxAmount;

}

}

**public** **class** CountryNotValidException **extends** Exception {

**public** CountryNotValidException(**boolean** isIndian) {

**super**();

}

}

**public** **class** EmployeeNameInvalidException **extends** Exception {

**public** EmployeeNameInvalidException(String empName) {

**super**();

}

}

**public** **class** CalculatorSimulator {

**public** **static** **void** main(String[] args) **throws** Exception {

// **TODO** Auto-generated method stub

**try** {

TaxCalculator Tc1 = **new** TaxCalculator("Ron",**false**,34000);

Tc1.calculateTax();

} **catch** (CountryNotValidException e) {

System.***out***.println(e);

}

**finally**{

System.***out***.println("The employee should be an indian for calculating tax");

}

TaxCalculator Tc2 = **new** TaxCalculator("Tim",**true**,1000);

Tc2.calculateTax();

TaxCalculator Tc3 = **new** TaxCalculator("Jack",**true**,55000);

Tc3.calculateTax();

TaxCalculator Tc4 = **new** TaxCalculator("",**true**,30000);

Tc4.calculateTax();

}

}

