שיעורי בית ביסודות מחלקת שליח פיצה – אופיר הופמן י3

class Deliver

{

private string name;

enum Level { regular, senior };//0-regular, 1-senior

private Level level;

private int month;

private int monthlyWorkHours;

private int specialHours;

private double hourlyRate;

private int quickDeliveries;

private double Bonus;

const double INCOME\_TAX = 0.1;

const double HEALT\_TAX = 0.08;

const double SUPERV\_RATE\_FACTOR = 1.5;

const double SPECIAL\_HOUR\_VALUE\_FACTOR = 2;

public Deliver(string name, int level, int month, int monthlyWorkHours,int hourlyRate, int specialHours, int quickDeliveries)

{

this.name = name;

this.level = (Level)level;

this.month = month;

this.monthlyWorkHours = monthlyWorkHours;

this.hourlyRate = hourlyRate;

this.specialHours = specialHours;

this.quickDeliveries = quickDeliveries;

}

public string GetName()

{

return this.GetName();

}

public int GetMonthlyWorkHours()

{

return this.monthlyWorkHours;

}

public int GetSpecialHours()

{

return this.specialHours;

}

public double GetHourlyRate()

{

return this.hourlyRate;

}

public int GetQuickDeliveries()

{

return this.quickDeliveries;

}

public double GetBonus()

{

return this.Bonus;

}

public int GetLevel()

{

return (int)this.level;

}

public void SetMonthlyWorkHours(int h)

{

this.monthlyWorkHours = h;

}

public void SetSpecialHours(int h)

{

this.specialHours = h;

}

public void SetHourlyRate(int r)

{

this.hourlyRate = r;

}

public void SetQuickDeliveries(int num)

{

this.quickDeliveries = num;

}

public void SetBonus(int b)

{

this.Bonus = b;

}

public void SetLevel(int level)

{

this.level = (Level)level;

}

// פעולה לחישוב תשלום על שעות רגילות

public double RegularHoursPayment()

{

if (this.level == Level.regular)

return monthlyWorkHours \* hourlyRate;

else

return monthlyWorkHours \* hourlyRate \* SUPERV\_RATE\_FACTOR;

}

// פעולה שמחזירה תשלום על שעות מיוחדות

public double SpecialHoursPayment()

{

if (this.level == Level.regular)

return specialHours \* hourlyRate;

else

return specialHours \* hourlyRate \* SUPERV\_RATE\_FACTOR;

}

// פעולה שמחזירה תשלום של בונוס

public double BonusPayment()

{

if (this.level == Level.regular)

return Bonus \* quickDeliveries;

else

return Bonus \* quickDeliveries \* SUPERV\_RATE\_FACTOR;

}

// פעולה שמחזירה משכורת ברוטו

public double BrutoSalary()

{

return RegularHoursPayment() + SpecialHoursPayment() + BonusPayment();

}

// פעולה שמחזירה משכורת נטו

public double NetSalary()

{

return BrutoSalary() - INCOME\_TAX \* BrutoSalary() - HEALT\_TAX \* BrutoSalary();

}

//\*\*equals

public override string ToString()

{

string s = "";

s += "\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

s += string.Format("| Bill For: {0,-8}. Month:{1,2:0}. Year:{2,4}. |\n", this.name, this.month, 2023);

s += "| |\n";

s += "| |\n";

s += "| -------------------------------------------- |\n";

s += string.Format("| Hourly Rate : {0,5:0} NIS |\n", hourlyRate );

s += string.Format("| Total Regular Hours : {0,5:0} |\n",RegularHoursPayment() );

s += string.Format("| Total Special Hours : {0,5:0} |\n", SpecialHoursPayment());

s += string.Format("| Total Bonus : {0,5:0} times X {1,2:0} NIS |\n", BonusPayment());

s += "| -------------------------------------------- |\n";

s += string.Format("| Bruto Salary : {0,5:0.00} NIS |\n", BrutoSalary());

s += string.Format("| Taxes : {0,5:0} % |\n", INCOME\_TAX\*10+HEALT\_TAX\*10);

s += string.Format("| Net Salary : {0,5:0.00} NIS |\n", NetSalary());

s += "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n";

return s;

}

}