Payroll Computation

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CSIS 1275 - 001
Assignment 2

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Assign2.java

```java
class Assign2
{

    public static void main(String[] args)
    {
        CalPayroll acpt = new CalPayroll();
        acpt.acceptPay();
    }

}
```

Pay.java

```java
class Pay
{
    private float hours, rate;
    private int strTime;

    public void setHours(float h)
    {
        hours = h;
    }

    public void setRate(float h)
    {
        rate = h;
    }

    public void setStrTime(int h)
    {
        strTime = h;
    }
```

```java
public float getHours()
{
    return hours;
}

public float getRate()
{
    return rate;
}

public int getStrTime()
{
    return strTime;
}

public double calc_payroll()
{
    double gross;

    if (strTime != 0)
    {
        if (hours > strTime)
        {
            gross = (strTime*rate) + (hours-
                strTime) * (rate*1.25);
        }


        else
        {
            gross = hours * rate;
        }
    }
```

```java
        else
        {
            gross = hours * rate;
        }

        return gross;
    }

    public double tax(double gross)
    {
        double taxRate;

        if ((gross>=0) && (gross<=399.99))
        {
            taxRate = 7;
        }
        else
            if ((gross>=400) && (gross<=899.99))
            {
            taxRate = 11;
            }
        else
        {
            taxRate = 15;
        }

        return taxRate;
    }

}
```

PayRoll.java

```java
class Payroll extends Pay
{

    public double calc_payroll()
    {
        double gross, taxRate;

        gross = super.calc_payroll();
        taxRate = super.tax(super.calc_payroll());

        return gross - (gross*taxRate/100);

    }
}
```

CalPayroll.java

```java
import java.text.NumberFormat;

class CalPayroll extends Pay
{
    Accept acpt = new Accept();

    NumberFormat dollars =
NumberFormat.getCurrencyInstance();

    Payroll cpu = new Payroll();

    public void displayinfo()
    {
        double gross = super.calc_payroll();
```

```java
        System.out.println("Gross pay is: " +
dollars.format(gross));
        System.out.println("Tax is      : " +
tax(gross) + "%");
        System.out.println("Net pay is  : " +
dollars.format(cpu.calc_payroll()));
    }

    public void acceptPay()
    {
        char out = 'a';
        int strTime;
        float rate, hours;

        while (out!='e' && out!='E')
        {
            System.out.println("Payroll
Computation\n");
            System.out.print("Enter number of hours
worked (00.0) <0 for Quick exit>: ");
            hours = acpt.acceptInputFloat();
            cpu.setHours(hours);
            super.setHours(hours);

            if (super.getHours() != 0)
            {
                System.out.print("Enter first number
of hours straight (integer or 0 to disable): ");
                strTime = acpt.acceptInputInt();
```

```java
            if(strTime<0)
            {
                super.setStrTime(0);
                cpu.setStrTime(0);
            }
            else
            {
                cpu.setStrTime(strTime);
                super.setStrTime(strTime);
            }

        System.out.print("Enter hourly rate of
worker (00.00): ");
            rate = acpt.acceptInputFloat();
            if(rate<0)
            {
                super.setRate(0);
                cpu.setRate(0);
            }
            else
            {
                cpu.setRate(rate);
                super.setRate(rate);

            }

        System.out.println(" ");
        Screen.scrollscreen('=', 65, 2);
        displayinfo();
        System.out.println(" ");

    }
```

```java
            System.out.print("Enter 'e' to exit or any
other letter + <Enter> to continue: ");
            out=acpt.acceptInputChar();
            if (out != 'e')
            {
                Screen.scrollscreen(15);
            }
        }

    }

}
```

<p align="center">Accept.java</p>

```java
import java.util.*;

class Accept
{
    Scanner stdin = new Scanner(System.in);

    public int acceptInputInt()
    {
        return(stdin.nextInt());
    }

    public char acceptInputChar()
    {
     return (stdin.next().charAt(0));
    }

    public float acceptInputFloat()
     {
     return (stdin.nextFloat());
    }
```

```java
    public double acceptInputDouble()
    {
     return (stdin.nextDouble());
    }
}
```

Screen.java

```java
public class Screen
{
    public static void scrollscreen(int clearL)
    {
        for(int i = 1; i <= clearL; i++)
        {
            System.out.println(" ");
        }
    }

    public static void scrollscreen(char chr, int col,
int row)
    {
        for(int i = 1; i <= row; i++)
        {
            for(int j = 1; j <= col; j++)
            {
                System.out.print(chr);
            }
            System.out.print("\n");
        }
    }
}
```