Algorithm\_Salaries

Declare tempSalary = 0

Declare grossPay = 0

Declare tempTax = 0

Declare health = 27.85;

Declare Read\_EmployeeID(INTEGER: 4DIGIT)

Declare Salary\_Code(INTEGER: 1DIGIT)

Int countDigit(int)

Double calcManager()

Double calcTax()

Double calcHealth();

Double calcFactory(DOUBLE);

Double calcSales(INT);

Double calcPiece(INT);

Void displayResults();

Main

{

Declare hours

Declare sales

Declare widget

Declare inputAgain;

do

{

Clear Screen

do

{

User\_Input (Read\_EmployeeID)

}while(countDigit(Read\_EmployeeID) != 4);

do

{

User\_Input (Salary\_Code)

}while(countCode(Salary\_Code) < 1 || countCode(Salary\_Code) > 5);

switch(Salary\_Code)

{

case 1:

calcManager()

calcTax()

calcHealth()

break

case 2:

User\_Input(hours)

calcFactory(hours)

calcTax()

calcHealth()

break

case 3:

User\_Input(sales)

calcSales(sales)

calcTax()

calcHealth()

break

case 4:

User\_Input(widget)

calcPiece(widget)

calcTax()

break

}

Clear Screen

Display Results

tempSalary = 0;

User\_Input(inputAgain)

}while(inputAgain != 0 )

}

int countDigit(int number)

{

int count = 0;

     while (number != 0)

{

       number = number / 10;

         ++count;

     }

     return count;

}

double calcManager()

{

tempSalary = 51,500 / 52;

grossPay = tempSalary;

return tempSalary;

}

double calcTax()

{

tempTax = tempSalary \* 0.19;

tempSalary = tempSalary - tempTax;

return tempTax;

}

double calcHealth()

{

tempSalary = tempSalary - health;

return health;

}

double calcFactory(double hours)

{

double rate = 13.85;

if(hours > 40)

{

tempSalary = ((40 \* rate) + ((hours - 40) \* (rate \* 1.5)));

grossPay = tempSalary;

return tempSalary;

}

else

{

tempSalary = hours \* rate;

grossPay = tempSalary;

return tempSalary;

}

}

double calcSales(int sales)

{

tempSalary = 250 + (0.057 \* sales);

grossPay = tempSalary;

return tempSalary;

}

double calcPiece(double start, int widget)

{

tempSalary = (11.30 \* widget);

grossPay = tempSalary;

return tempSalary;

}

void displayResults()

{

switch(Salary\_Code)

{

case 1:

Display Manager’s Data

break;

case 2:

Display Factory Worker’s Data

break;

case 3:

Display Sales’ Data

break;

case 4:

Display Pieceworkers’ Data

break;

}

}