#include <stdio.h>

//Siobhan O Hanlon, G00389108

//Main

void main()

{

//Declare variables

float employNum, hours, payRate, sales, wages;

float bonus, overTime = 0, higherPay;

float totalWages = 0, totalOvertime = 0, mostHours = 0, bestEmployee;

//Ask User for first employee Number

printf("Please enter employee number:\t\t\t");

scanf("%f", &employNum);

//Until -1 is entered

while (employNum > 0)

{

//Ask for Employee Number of hours

printf("Please enter number of hours worked:\t\t");

scanf("%f", &hours);

//Set Most Hours

if (hours > mostHours)

{

//Set details for most hours worked

bestEmployee = employNum;

mostHours = hours;

}

//Ask for Employee rate of pay

printf("Please enter employee payrate:\t\t\t");

scanf("%f", &payRate);

//Ask for Employee Value of Sales

printf("Please enter employee value of sales per week:\t");

scanf("%f", &sales);

//39 or under

if (hours <= 39)

{

//If hours 39 or less its paid by pay rate

wages = hours\*payRate;

}

//Over 39 hours and under 50

else if (39 < hours && hours <=50)

{

//If hours 39 or less its paid by pay rate

overTime = hours - 39;

//Anything over 39 and under 50 is time and a half

higherPay = (payRate \* 1.5);

//Work out employees pay

wages = (39\*payRate)+(overTime \* higherPay);

}

//Over 50 hours

else if(hours > 50)

{

//Find over time

overTime = hours - 50;

//Find time and a half

higherPay = (payRate \* 1.5);

//Find double pay

bonus = (payRate \* 2);

//Calculate wages

wages = (39 \* payRate) + (11 \* higherPay) + (overTime \* bonus);

//Update overtime to use at end for all over 39

overTime += 11;

}

//Update Total

totalWages += wages;

totalOvertime += overTime;

//Display to screen

printf("\nEmployee Number:\t%.0f", employNum);

printf("\nTotal Weekly Salary:\t%.2f",wages);

//if it is not -1 it will start again

//Ask for Employee Number

printf("\n\n\nPlease enter employee number:\t\t\t");

scanf("%f", &employNum);

}

//Display Info

if (mostHours > 0)

{

printf("\n\n\nTotal Compay Wages is:\t\t\t%.2f", totalWages);

printf("\nTotal Overtime:\t\t\t\t%.2f Hours", totalOvertime);

printf("\nEmployeee that worked most hours:\t%.0f\n\n\n", bestEmployee);

}

//If -1 entered as first number

else

{

printf("\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

printf("\n\nERROR: No details entered!!!!!");

printf("\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");

}

}