

//James

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

namespace Q4

{

class Program

{

static void Main(string[] args)

{

/*

This is for part 1 and 2 of the question. I then redid the answer to incorporate part 3 and four of the advanced sections.

//declare variables

string employeeName;

double hourlyRate;

//declare the variables for each day

double hoursDayOne;

double hoursDayTwo;

double hoursDayThree;

double hoursDayFour;

double hoursDayFive;

double total = 0;

double temp = 0;

double wages = 0;

Console.WriteLine("Please enter the employee's name: ");

employeeName = Console.ReadLine();

Console.WriteLine("Please enter " + employeeName + "'s hourly rate: ");

hourlyRate = double.Parse(Console.ReadLine());

Console.WriteLine("Please enter the hours worked on Monday: ");

hoursDayOne = double.Parse(Console.ReadLine());

// add the current number of hours to the total

//Do this for each day of the week

temp = total;

temp = total + hoursDayOne;

total = temp;

Console.WriteLine("Please enter the hours worked on Tuesday: ");

hoursDayTwo = double.Parse(Console.ReadLine());

temp = total;

temp = total + hoursDayTwo;

total = temp;

Console.WriteLine("Please enter the hours worked on Wednesday: ");

hoursDayThree = double.Parse(Console.ReadLine());

temp = total;

temp = total + hoursDayThree;

total = temp;

Console.WriteLine("Please enter the hours worked on Thursday: ");

hoursDayFour = double.Parse(Console.ReadLine());

temp = total;

temp = total + hoursDayFour;

total = temp;

Console.WriteLine("Please enter the hours worked on Friday: ");

hoursDayFive = double.Parse(Console.ReadLine());

temp = total;

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temp = total + hoursDayFive;
total = temp;

wages = total * hourlyRate;

Console.WriteLine(employeeName + " has earned £" + wages + " this week.");
*/

//declare variables
string employeeName;
double hourlyRate;
double totalHoursWorked = 0;
double wages = 0;

//Get the employees name and then store it in the variable
Console.Write("Please enter the employee's name: ");
employeeName = Console.ReadLine();
//Get the employee's hourly rate and then store it
Console.Write("Please enter " + employeeName + "'s hourly rate: ");
hourlyRate = double.Parse(Console.ReadLine());

//Create an array for the days of the week
string[] daysOfWeek = new string[5] { "Monday", "Tuesday", "Wednesday",
"Thursday", "Friday" };

//Create an array for the hours worked
int[] hoursWorked = new int[5];

for (int counter = 0; counter < 5; counter++)
{
    Console.Write("Please enter the amount of hours worked on {0} "
, daysOfWeek[counter]);
    hoursWorked[counter] = int.Parse(Console.ReadLine());
}
//Calculate the sum of the array
for (int count2 = 0; count2 < 5; count2++)
{
    totalHoursWorked += hoursWorked[count2];
}
//totalHoursWorked = hoursWorked[0] + hoursWorked[1] + hoursWorked[2] +
hoursWorked[3] + hoursWorked[4];
//Calculate wages
wages = totalHoursWorked * hourlyRate;
//Display wages
Console.WriteLine(employeeName + " has earned £" + wages + " this week");

Console.ReadLine();
}
}
}

```

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