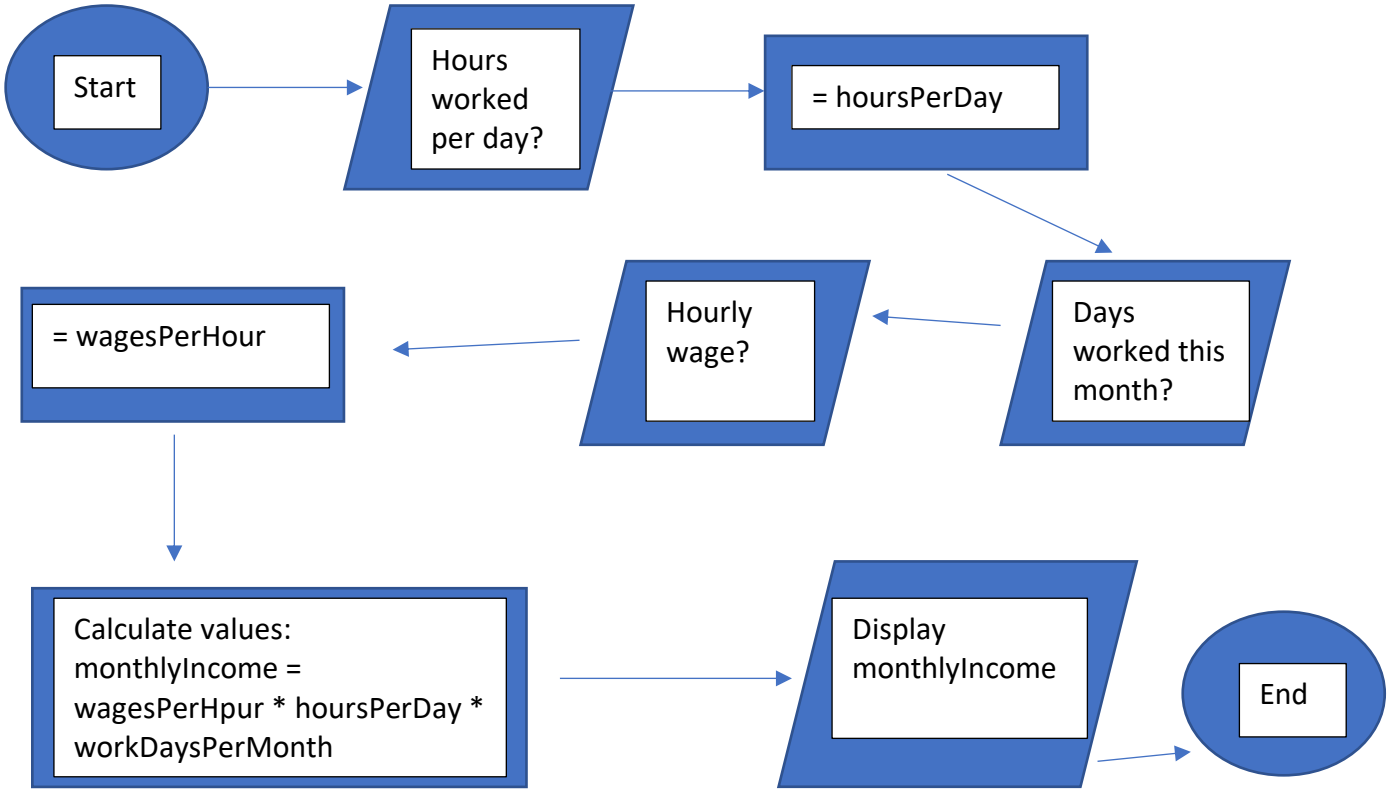
Assignment 1

- Employee Income
  - Capture hours employee works from user
  - Capture days worked this month from user
  - Capture hourly wage from user
  - Calculate values to store monthly income
  - Display monthly income



Pseudocode

- Input “How many hours do you work per day?”
- Store value from input
- Input “How many days do you work per month?”
- Store value from input
- Input “What is your hourly wage?”
- Store value from input
- monthlyIncome = wagesPerHour * hoursPerDay * workDaysPerMonth
- Display monthlyIncome

```
namespace Assignment_1
{
    1 reference
    class Employee
    {
        1 reference
        public static void EmployeeIncome()
        {
            Console.WriteLine("How many hours per day do you work?");
            decimal hoursPerDay = decimal.Parse(Console.ReadLine());

            Console.WriteLine("How many days did you work this month?");
            decimal workDaysPerMonth = decimal.Parse(Console.ReadLine());

            Console.WriteLine("What is your hourly wage?");
            decimal wagePerHour = decimal.Parse(Console.ReadLine());

            decimal monthlyIncome = wagePerHour * hoursPerDay * workDaysPerMonth;

            Console.WriteLine("Your monthly income is ${0}", monthlyIncome);
        }
    }
}
```

Pass or Fail

- Capture user input for grades on assignments
- Find mean of assignments and store in var.
- Compare mean to 70 (threshold of passing grade)
- Display end result

Pseudocode

01 Start Program
02 Capture input for grade on first assignment
03 Store grade in variable
04 Capture input for grade on second assignment
05 Store grade in variable
06 Capture input for grade on third assignment
07 Store grade in variable
08 Average all three grades (grade1+grade2+grade3 / 3)
09 Store mean in variable
10 Compare mean to 70
11 IF greater than 69 -> PRINT pass
12 ELSE less than 70 -> PRINT fail
13 End Program

```
1 reference
public static void PassOrFail()
{
    Console.WriteLine("What was your grade on Assignment 1? e.g. 50, 70, 100");
    decimal grade1 = decimal.Parse(Console.ReadLine());

    Console.WriteLine("What was your grade on Assignment 2? e.g. 50, 70, 100");
    decimal grade2 = decimal.Parse(Console.ReadLine());

    Console.WriteLine("What was your grade on Assignment 3? e.g. 50, 70, 100");
    decimal grade3 = decimal.Parse(Console.ReadLine());

    decimal gradeAverage = (grade1 + grade2 + grade3) / 3;
    if (gradeAverage >= 70)
    {
        Console.WriteLine("You passed with a grade of ${0}%!", gradeAverage);
    }
    else
    {
        Console.WriteLine("Unfortunately, your grade of {0}% is not a passing grade.", gradeA
    }
}
```

Multiply Two Values

- Capture user input for numOne
- Capture user input for numTwo
- Multiply numOne and numTwo
- Do not allow numOne or numTwo to = 0
- Print result

Pseudocode

00 Start Program
01 Capture numOne from user and store in variable
02 Capture numTwo from user and store in vafriable
03 Do not allow numOne or numTwo to = 0
04 result = numOne * numTwo
05 Display result
06 End program

```
1 reference
public static void Multiply2Values()
{
    try {
        Console.WriteLine("Give me any number greater than 0.");
        float numOne = float.Parse(Console.ReadLine());
        Console.WriteLine("Give me any number to multiply it with except for zero");
        float numTwo = float.Parse(Console.ReadLine());
        float result = numOne * numTwo;
        Console.WriteLine($"{numOne} x {numTwo} = {result}", result);

    }
    catch (DivideByZeroException e) {
        Console.WriteLine(e.Message);
    }
```

Divide Two Numbers

- Capture user input for numOne
- Capture user input for numTwo
- Divide numOne and numTwo
- Do not allow numOne or numTwo to = 0
- Print result

Pseudocode

00 Start Program
01 Capture numOne from user and store in variable
02 Capture numTwo from user and store in vafriable
03 Do not allow numOne or numTwo to = 0
04 result = numOne / numTwo
05 Display result
06 End program

```
}
1 reference
public static void Divide2Values()
{
    try {
        Console.WriteLine("Give me any number.");
        float numOne = float.Parse(Console.ReadLine());
        Console.WriteLine("Give me any number to divide by except for zero");
        float numTwo = float.Parse(Console.ReadLine());
        float result = numOne / numTwo;
        Console.WriteLine($"{numOne} / {numnTwo} = {result}", result);
    }

    catch (DivideByZeroException e) {
        Console.WriteLine(e.Message);
    }
```

Compare Two Values

- Capture user input for numOne
- Capture user input for numTwo
- Display if numOne is greater than numTwo
- Display if numTwo is greater than numOne
- Display if numbers are equal

Pseudocode

01 Start Program
02 Capture user input for numOne and store as variable
03 Capture user input for numTwo and store as variable
04 IF numOne is GREATER THAN numTwo
05 PRINT numOne is greater than numTwo
06 ELIF numTwo is greater than numOne
07 PRINT numTwo is greater than numOne
08 ELSE numOne and numTwo are equal
09 End Program

```
public static void Compare2Values()
{
    Console.WriteLine("Give me any number.");
    float compare1 = float.Parse(Console.ReadLine());

    Console.WriteLine("Give me another number.");
    float compare2 = float.Parse(Console.ReadLine());

    if (compare2 > compare1)
    {
        Console.WriteLine($"{compare2} is greater than {compare1}.");
    }
    else if (compare2 == compare1)
    {
        Console.WriteLine($"{compare2} is equal to {compare1}.");
    }
    else
    {
        Console.WriteLine($"{compare2} is less than {compare1}.");
    }
}
```

Even or Odd

- Capture user input for num
- Use modulo by 2 to capture remainder
- If remainder is 1, integer is odd
- Else, integer is even
- Display result

Pseudocode

01 Start Program
02 Capture user input for num
03 IF num / 2 has remainder of one (MODULO)
04 num is odd
05 ELSE num is even
06 Display result
07 End Program

```
1 reference
public static void EvenOrOdd()
{
    Console.WriteLine("Give me any integer.");
    int num = int.Parse(Console.ReadLine());

    if (num % 2 == 1)
    {
        Console.WriteLine($"{number1} is an odd number");
    }
    else
    {
        Console.WriteLine($"{number1} is an even number");
    }
```