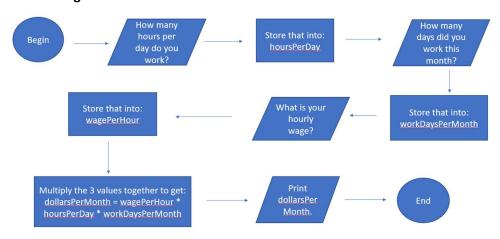
Pseudo Code Assignment

Joe Beach

• Employee Income

- o List
- Ask for how much they work each day.
- Ask for how many days they worked this month.
- Ask what their hourly wage is.
- Multiply these values to get their monthly income.
- Display the result.

Flow Diagram



- Start
 - Input "How many hours per day do you work?"
 - hoursPerDay = input
 - input "how many days did you work this month?"
 - workDaysPerMonth = input
 - input "what is your hourly wage?"
 - wagePerHour = input
 - dollarsPerMonth= wagePerHour * hoursPerDay * workDaysPerMonth
 - print dollarsPerMonth
- End
- o C# Code

```
case 1:
    Console.WriteLine("You have chosen option {0}", option);

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 dollarsPerMonth = wagePerHour * hoursPerDay * workDaysPerMonth;

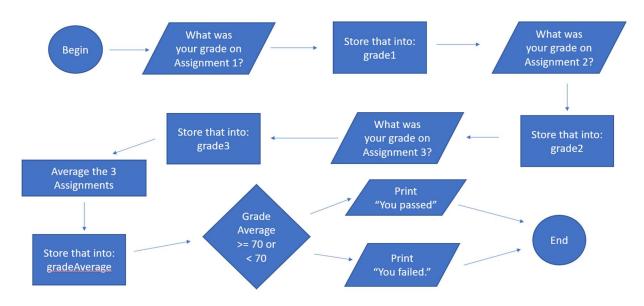
Console.WriteLine("Your monthly income is ${0}",dollarsPerMonth);
    flag = true;

break;
```

• Class Pass or Fail

- o List
 - Ask for their grades on their assignments. (e.g. 3 assignments)
 - Average the assignments.
 - Compare the result to 70 (a passing grade)
 - Display the result.

Flow Diagram



- Start
 - Input "What was your grade on Assignment 1"
 - grade1 = input
 - Input "What was your grade on Assignment 2"
 - grade2 = input
 - Input "What was your grade on Assignment 3"
 - grade3 = input
 - gradeAverage = (grade1 + grade2 +grade3) / 3
 - if gradeAverage >= 70
 - o Print "Congratulations, you passed"
 - Else
 - o Print "Oops, you failed."
- End
- o C# Code

```
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());

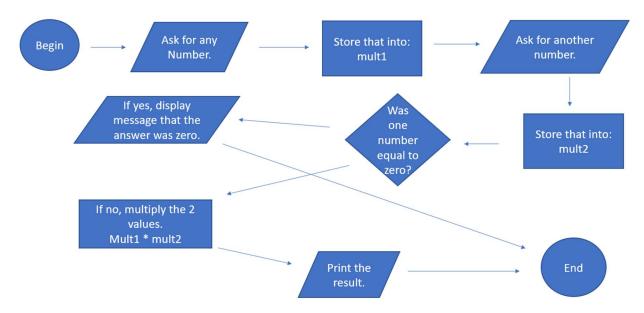
   Console.WriteLine("What was your grade on Assignment 3? e.g. 50, 70, 100");
   decimal grade3 = decimal.Parse(Console.ReadLine());

   decimal gradeAverage = (grade1 + grade2 + grade3) / 3;
   if (gradeAverage >= 70)
   {
        Console.WriteLine("Congratulations, you passed. Your grade was ${0}%", gradeAverage);
   }
   else
   {
        Console.WriteLine("Oops, you failed. Your grade was {0}%", gradeAverage);
   }
}
```

• Multiply Two Values

- o List
 - Ask for one number.
 - Ask for another number.
 - Multiply the two numbers together.
 - If one of the numbers is zero, display a message.
 - Display the result.

Flow Diagram



- Start
 - Input "Give me any number except for zero"
 - mult1 = input
 - Input "Give any number to multiply it with except for zero."
 - mult2 = input
 - if mult1 or mult2 are equal to zero
 - o Print "One of your numbers was zero, therefore the answer is zero"
 - Else
 - o multAnswer = mult1 * mult2
 - o Print multAnswer
- End
- o C# Code

```
public static void Multiply2Values()
{
    Console.WriteLine("Give me any number except for zero");
    float mult1 = float.Parse(Console.ReadLine());

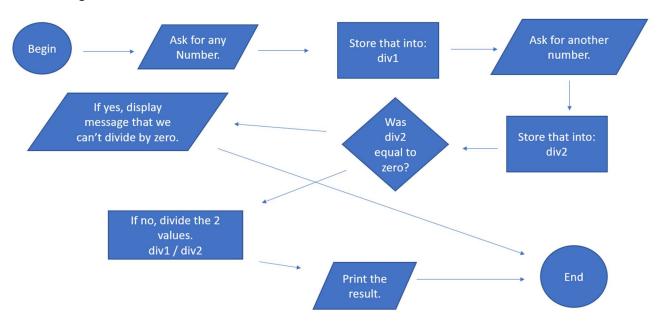
    Console.WriteLine("Give me any number to multiply it with except for zero");
    float mult2 = float.Parse(Console.ReadLine());
    float multAnswer = 0;

    if (mult1 == 0 || mult2 == 0)
    {
        Console.WriteLine("One of your numbers was zero, therefore the answer is zero.");
    }
    else
    {
        multAnswer = mult1 * mult2;
        Console.WriteLine($"{mult1} x {mult2} = {multAnswer}", multAnswer);
    }
}
```

• Divide Two Values

- o List
 - Ask for one number.
 - Ask for another number.
 - Divide the two numbers together.
 - If the second number is zero, display a message.
 - Display the result.

Flow Diagram



- Start
 - Input "Give me any number"
 - div1 = input
 - Input "Give any number to divide it with except for zero."
 - div2 = input
 - if div2 is equal to zero
 - o Print "Your second number was zero. I cannot divide by zero"
 - Else
 - o divAnswer = div1 / div22
 - Print divAnswer
- End
- o C# Code

```
reference
public static void Divide2Values()
{
    Console.WriteLine("Give me any number.");
    float div1 = float.Parse(Console.ReadLine());

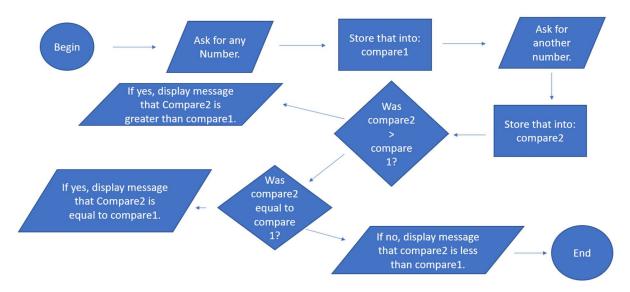
    Console.WriteLine("Give me any number to divide by except for zero");
    float div2 = float.Parse(Console.ReadLine());
    float divAnswer = 0;

    if (div2 == 0)
    {
        Console.WriteLine("Your second number was zero. I cannot divide by zero.");
    }
    else
    {
        divAnswer = div1 / div2;
        Console.WriteLine($"{div1} / {div2} = {divAnswer}", divAnswer);
    }
}
```

Compare Two Values

- List
 - Ask for one number.
 - Ask for another number.
 - If the second number is greater than the first display a message.
 - If the second number is equal to the first display a message.
 - If the second number is less than the first display a message.

Flow Diagram



- Start
 - Input "Give me any number"
 - compare1 = input
 - Input "Give any number to compare it to."
 - compare2 = input
 - if compare2 > compare1
 - Print "compare 2 is greater than compare1"
 - Else if compare2 = compare1
 - o Print "compare 2 is equal to compare1."
 - Else
 - o Print "compare 2 is less than compare1"
- End
- C# Code

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

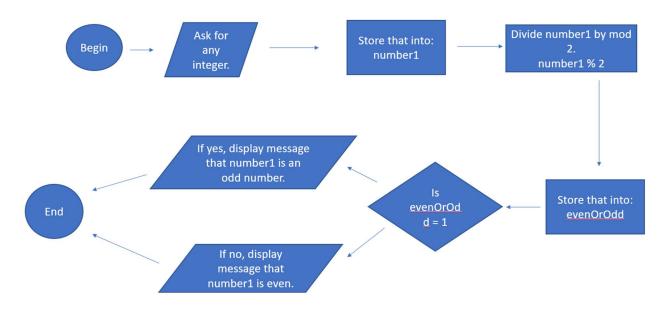
    Console.WriteLine("Give me another number to compare it to.");
    float compare2 = float.Parse(Console.ReadLine());

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

• Even or Odd

- List
 - Ask for an integer.
 - Divide that integer by modulo 2.
 - If the result is 1, the integer is odd.
 - If the result is 0, the integer is even.
 - Print the result.

Flow Diagram



- Start
 - Input "Give me any integer"
 - number1 = input
 - evenOrOdd = number1 % 2
 - if evenOrOdd = 1
 - o Print "number1 is an odd number"
 - Else
 - o Print "number1 is an even number."
- End
- o C# Code

```
reference
public static void EvenOrOdd()
{
    Console.WriteLine("Give me any integer.");
    int number1 = int.Parse(Console.ReadLine());

    int evenOrOdd = number1 % 2;

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