

Program console

```
reference
public int Input()

    int intAge = 0;

    // Loop till
    do
    {
        Console.WriteLine("What is your expected starting working age? Please enter an integer that is greater than or equal to 16.");
        intAge = int.Parse(Console.ReadLine());
    } while (intAge < 16);

    return intAge;
}
```

C:\ITM320\itm320\week1_hw1\bin\Debug\week1_hw1.exe

What is your expected starting working age? Please enter an integer that is greater than or equal to 16.

17

With the education attainment of less than a high school diploma, the estimated income over 50 years is \$1,352,000.00.

With the education attainment of graduated with a high school diploma, no college, the estimated income over 50 years is \$1,874,600.00.

With the education attainment of some college with no degree, the estimated income over 50 years is \$2,012,400.00.

With the education attainment of associate degree, the estimated income over 50 years is \$2,173,600.00.

With the education attainment of bachelor's degree, the estimated income over 50 years is \$3,049,800.00.

With the education attainment of master's degree, the estimated income over 50 years is \$3,642,600.00.

With the education attainment of professional degree, the estimated income over 50 years is \$4,773,600.00.

```
Program.cs  Calculate.cs  UserInput.cs
week1_hw1  week1_hw1.Calculate  Income(int age)

1 using System;
2 using System.CodeDom;
3 using System.Collections.Generic;
4 using System.ComponentModel;
5 using System.Globalization;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9
10 namespace week1_hw1
11 {
12     2 references
13     class Calculate
14     {
15         1 reference
16         public void Income(int age)
17         {
18             // variables for calculation
19             const int workWeek = 52;
20             const int retireAge = 67;
21             int yearToWork = retireAge - age;
22             int totalWorkWeek = workWeek * yearToWork;
23
24             // Initialize a dictionary for enumerating each attainment
25             Dictionary<string, int> incomeDict = new Dictionary<string, int>()
26             {
27                 {"less than a high school diploma", 520},
28                 {"graduated with a high school diploma, no college", 721},
29                 {"some college with no degree", 774},
30                 {"associate degree", 836},
31                 {"bachelor's degree", 1173},
32                 {"master's degree", 1401},
33                 {"professional degree", 1836}
34             };
35
36             // Enumerate each item in the dictionary
37             foreach (var item :KeyValuePair<string,int> in incomeDict)
38             {
39                 Console.WriteLine($"With the education attainment of {item.Key}, the estimated income over {yearToWork} years is {(item.Value * totalWorkWeek):C}.");
40             }
41
42             Console.ReadLine();
43         }
44     }
```

```

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6 using week1_hw1;
7
8 /*
9  Author: Jay Han
10 Date: 1/26/2020
11 ITM320 HW1
12
13 Program Requirements:
14 a.Design an application that calculates the amount of salary a person can make in their "working lifetime" with the following criteria
15 1) Less than a high school diploma=520
16 2) Graduated with a high school diploma, no college=712
17 3) Some college with no degree=774
18 4) Associate degree=836
19 5) Bachelor's degree=1173
20 6) Master's degree=1401
21 7) Professional degree=1836
22 Use the following data from the U.S Bureau of Labor Stats for your application (Assume that an annual work week is 52): https://www.bls.gov/careeroutlook/2018/data-on-display/education-pays.htm
23 Your application must be able to do the following:
24 a) Ask the user for their expected starting working age(min 16 years old).
25 b) The retiring working age for a person born in 1960 or later is 67.
26 c) List the amount of income that person will be able to make throughout their entire working lifetime based on criteria(1) to(7) above.Note: You do not have to calculate for inflation, investment
27 */
28
29 namespace Week1_HW1
30 {
31     //References
32     class Program
33     {
34         //References
35         static void Main()
36         {
37             // Initialize UserInput class and assign the output to age variable
38             UserInput getUserInput = new UserInput();
39             int age = getUserInput.Input();
40
41             // Initialize Calculate class and pass age variable to Income method.
42             Calculate accumulateIncome = new Calculate();
43             accumulateIncome.Income(age);
44         }
45     }
46 }

```

Solution Explorer: week1_hw1 (1 of 1 project)

- Properties
- References
- App.config
- Calculate.cs
- Program.cs
- UserInput.cs

Solution Explorer | Team Explorer

Properties

```
Program.cs  Calculate.cs  UserInput.cs  X
week1_hw1  week1_hw1.UserInput  Input()
3  using System.Linq;
4  using System.Runtime.Remoting.Metadata.W3cXsd2001;
5  using System.Text;
6  using System.Threading.Tasks;
7
8  namespace week1_hw1
9  {
10     2 references
11     class UserInput
12     {
13         1 reference
14         public int Input()
15         {
16             int intAge = 0;
17
18             // Loop till the user enters a valid input
19             do
20             {
21                 Console.WriteLine("What is your expected starting working age? Please enter an integer that is greater than or equal to 16.");
22             } while (!int.TryParse(Console.ReadLine(), out intAge) || (intAge < 16));
23
24             return intAge;
25         }
26     }
```