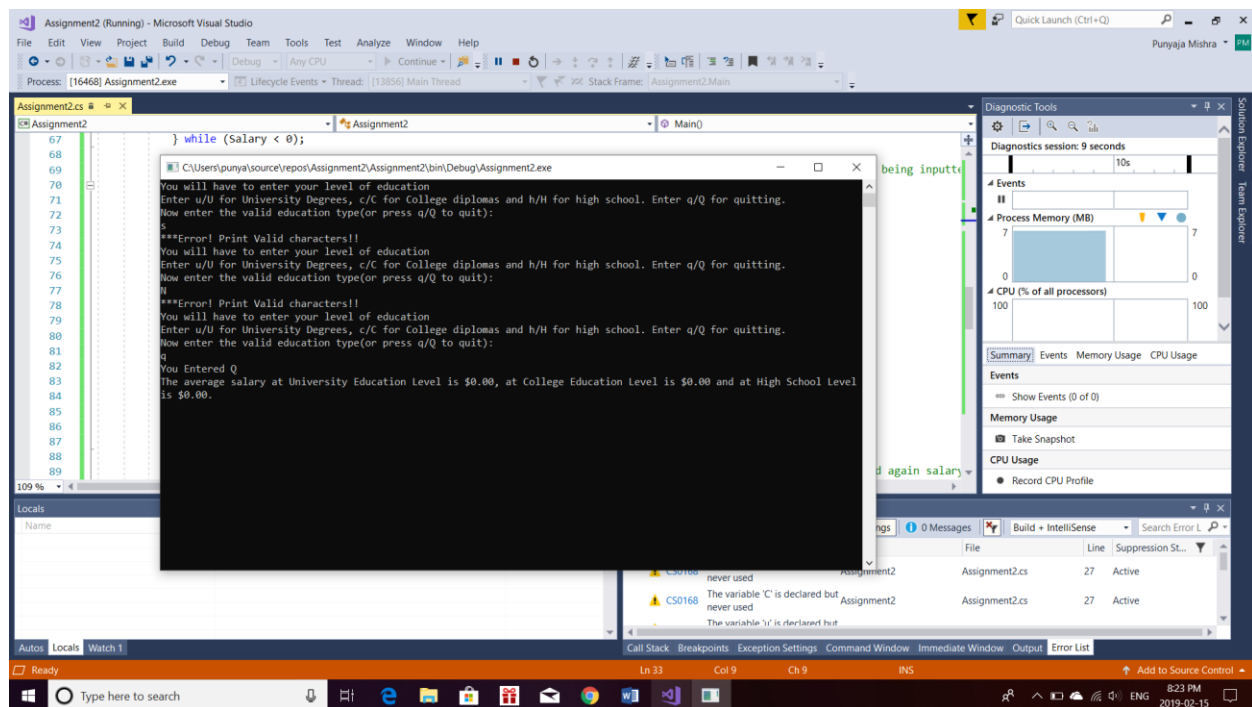


# Testing Documentation

Test 1	
<b>Description</b>	When in the beginning we enter education level other than 'c', 'C', 'Q', 'q', 'u', 'U', 'h', 'H'. Next, we enter any invalid letter in upper case. Then we enter 'q'
<b>Input</b>	s, N, q
<b>Expected Output</b>	Error! Error! Average salary=\$0.00 for university degree, average salary=\$0.00 for college diploma and average salary=\$0.00 for high school

## Actual Output



Test 2	
<b>Description</b>	We enter education level as university degree then salary for it. Then enter q for quit
<b>Input</b>	u, 15000, q
<b>Expected Output</b>	Average salary=\$15000.00 for university degree, average salary =\$0.00 for college diploma and average salary=\$0.00 for high school

## Actual Output

The screenshot shows the Microsoft Visual Studio IDE with the following components:

- Console Window:** Displays the program's execution. The user enters 'u' for university, '15000' for salary, and 'q' to quit. The program calculates and displays the average salary for each education level: \$15,000.00 for university, \$0.00 for college diploma, and \$0.00 for high school.
- Solution Explorer:** Shows the project structure for 'Assignment2'.
- Diagnostic Tools:** Displays performance metrics such as Process Memory (MB) and CPU Usage.
- Error List:** Shows two warnings (CS0168) related to unused variables 'c' and 'C' in 'Assignment2.cs'.

Test 3	
<b>Description</b>	We enter education level as college diploma then enter salary for it and enter q for quitting
<b>Input</b>	c, 12000, q
<b>Expected Output</b>	Average salary=\$0.00 for university degree, average salary =\$12000.00 for college diploma and average salary=\$0.00 for high school

### Actual Output

The screenshot shows the Microsoft Visual Studio IDE with the following components:

- Code Editor:** Displays the C# code for `Assignment2.cs`. The code includes a `while` loop that prompts the user for education level (u/U, c/C, h/H, or q/Q) and salary. It calculates the average salary for each level and prints the results.
- Console Window:** Shows the program's execution. The user enters 'c' for college diploma, '12000' for salary, and 'q' to quit. The output shows the average salary for each level: \$0.00 for university, \$12,000.00 for college, and \$0.00 for high school.
- Solution Explorer:** Shows the project structure with `Assignment2.cs` and `Assignment2.exe`.
- Diagnostic Tools:** Displays a summary of the diagnostics session, including memory usage and CPU usage.
- Error List:** Shows two warnings (CS0168) for unused variables 'c' and 'h'.

Test 4	
<b>Description</b>	We enter education level as high school then enter salary for it and enter q for quitting
<b>Input</b>	h, 10000, q
<b>Expected Output</b>	Average salary=\$0.00 for university degree, average salary =\$0.00 for college diploma and average salary=\$10000.00 for high school

## Actual Output

The screenshot shows the Visual Studio IDE with the following components:

- Code Editor:** Displays the source code for `Assignment2.cs`. The code prompts the user to enter their level of education (u/U for University Degrees, c/C for College diplomas, h/H for high school) and their salary. It then calculates and displays the average salary for each level.
- Console Window:** Shows the program's output. The user enters 'h' for high school, '10000' for salary, and 'q' to quit. The program outputs: "You will have to enter your level of education. Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting. Now enter the valid education type(or press q/Q to quit):", "You Entered H", "Enter Your Salary:", "10000", "Salary you entered is \$10,000.00", "You will have to enter your level of education. Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting. Now enter the valid education type(or press q/Q to quit):", "q", and "The average salary at University Education Level is \$0.00, at College Education Level is \$0.00 and at High School Level is \$10,000.00.".
- Solution Explorer:** Shows the project structure with `Assignment2` and `Assignment2.cs`.
- Output Window:** Shows the program's output, which matches the expected output for Test 4.
- Diagnostic Tools:** Shows the Diagnostics session (6 seconds) with tabs for Events, Process Memory (MB), and CPU Usage (% of all processors).
- Error List:** Shows two warnings (CS0168) for unused variables 'c' and 'C'.

Test 5	
<b>Description</b>	We enter education level as university degree then enter salary for it. Then enter university degree again and a salary value for it, then we enter a college diploma and salary then again college diploma and salary then we enter high school then salary, again high school and salary. Basically, two for each education level and then we enter q for quitting. This time we use upper case letters as well.
<b>Input</b>	U, 25000, u, 30000, c, 20000, C, 19000, H, 10000, h, 14000, Q
<b>Expected Output</b>	Average salary=\$27,500.00 for university degree, average salary=\$19,500.00 for college diploma and average salary=\$12000.00 for high school

### Actual Output

```

C:\Users\punya\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
C
You Entered C
Enter Your Salary:
19000
Salary you entered is $19,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
H
You Entered H
Enter Your Salary:
10000
Salary you entered is $10,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
h
You Entered h
Enter Your Salary:
14000
Salary you entered is $14,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
Q
You Entered Q
The average salary at University Education Level is $27,500.00, at College Education Level is $19,500.00 and at High School Level is $12,000.00.

```

Test 6	
<b>Description</b>	We enter 2 education levels u, c and salaries thrice and then quit
<b>Input</b>	u, 25000, c, 14000, U, 29000, U, 30000, C, 20000, c, 21000, Q
<b>Expected Output</b>	Average salary=\$28,000.00 for university degree, average salary=\$18,333.33 for college diploma and average salary=\$0.00 for high school

## Actual Output

```

C:\Users\puny\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
u
You Entered U
Enter Your Salary:
25000
Salary you entered is $25,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
c
You Entered C
Enter Your Salary:
14000
Salary you entered is $14,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
U
You Entered U
Enter Your Salary:
29000
Salary you entered is $29,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
U
You Entered U
Enter Your Salary:
30000
Salary you entered is $30,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
C
You Entered C
Enter Your Salary:
20000
Salary you entered is $20,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
c
You Entered C
Enter Your Salary:
21000
Salary you entered is $21,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Type here to search
e
2019-02-15 8:32 PM

```

```
Select C:\Users\punyal\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
Salary you entered is $21,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
Q
You Entered Q
The average salary at University Education Level is $28,000.00, at College Education Level is $18,333.33 and at High School Level is $0.00.
```

Test 7	
Description	We enter 2 education levels u, h and salaries thrice and then quit
Input	u, 25000, h, 10000, U, 29000, h, 11500, U, 30000, H, 12000, Q
Expected Output	Average salary=\$28,000.00 for university degree, average salary =\$0.00 for college diploma and average salary=\$11,166.67 for high school

Actual Output

```
C:\Users\punya\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
u
You Entered U
Enter Your Salary:
25000
Salary you entered is $25,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
h
You Entered H
Enter Your Salary:
10000
Salary you entered is $10,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
u
You Entered U
Enter Your Salary:
29000
Salary you entered is $29,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
h
You Entered H
Enter Your Salary:
11500
Salary you entered is $11,500.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
u
You Entered U
Enter Your Salary:
30000
Salary you entered is $30,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
H
You Entered H
Enter Your Salary:
12000
Salary you entered is $12,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
```

```
C:\Users\punya\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
Q
You Entered Q
The average salary at University Education Level is $28,000.00, at College Education Level is $0.00 and at High School Level is $11,166.67.
```



Test 8	
<b>Description</b>	We enter 2 education levels c, h and salaries thrice and then quit
<b>Input</b>	c, 21000, h, 10000, C, 20000, h, 11500, C, 22000, H, 12000, Q
<b>Expected Output</b>	Average salary=\$0.00 for university degree, average salary =\$21,000.00 for college diploma and average salary=\$11,166.67 for high school

## Actual Output

```

C:\Users\punya\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
c
You Entered C
Enter Your Salary:
21000
Salary you entered is $21,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
h
You Entered H
Enter Your Salary:
10000
Salary you entered is $10,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
C
You Entered C
Enter Your Salary:
20000
Salary you entered is $20,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
h
You Entered H
Enter Your Salary:
11500
Salary you entered is $11,500.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
C
You Entered C
Enter Your Salary:
22000
Salary you entered is $22,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
H
You Entered H
Enter Your Salary:
12000
Salary you entered is $12,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.

```

```
C:\Users\punya\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
12000
Salary you entered is $12,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
Q
You Entered Q
The average salary at University Education Level is $0.00, at College Education Level is $21,000.00 and at High School Level is $11,166.67.
```

Test 9	
Description	We enter an education level then an invalid letter then again, a valid letter and so on till we enter. To check if program works if invalid letter is printed in between
Input	U, 30000, s, c, 15000, U, 27000, h, 10000, H, 11000, Q
Expected Output	Average salary=\$28,500.00 for university degree, average salary =\$15,000 .00 for college diploma and average salary=\$10,500.00 for high school

**Actual Output**

```
C:\Users\punya\source\repos\Assignment2\Assignment2\bin\Debug\Assignment2.exe
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
u
You Entered U
Enter Your Salary:
30000
Salary you entered is $30,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
s
***Error! Print Valid characters!!
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
c
You Entered C
Enter Your Salary:
15000
Salary you entered is $15,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
u
You Entered U
Enter Your Salary:
27000
Salary you entered is $27,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
h
You Entered H
Enter Your Salary:
10000
Salary you entered is $10,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
H
You Entered H
Enter Your Salary:
11000
Salary you entered is $11,000.00
You will have to enter your level of education
Enter u/U for University Degrees, c/C for College diplomas and h/H for high school. Enter q/Q for quitting.
Now enter the valid education type(or press q/Q to quit):
Q
You Entered Q
The average salary at University Education level is $28,500.00, at College Education Level is $15,000.00 and at High School Level is $10,500.00.
```