

Presentation

by Atika Ishaq

Submission date: 20-Dec-2019 07:35PM (UTC+0500)

Submission ID: 1237456363

File name: 103162_Atika_Ishaq_Presentation_535819_1259936121.pptx (1.48M)

Word count: 1097

Character count: 5074

END SEMESTER PROJECT

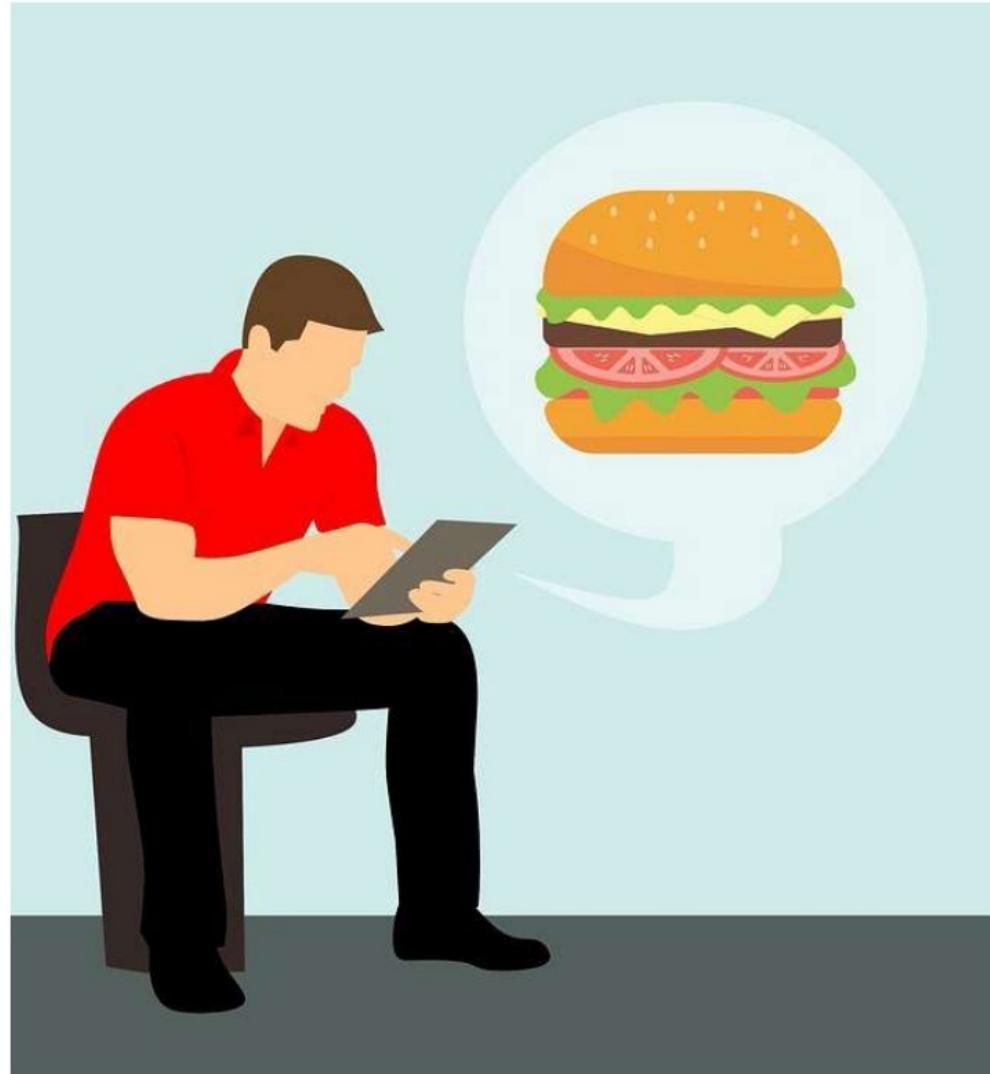
PRESENTED BY

SOHAIB IKRAM 283756

ATIKA ISHAQ 302073

PROJECT TITLE

E-MENU CARD



CONTENTS

(NO, IT'S NOT BORING ☺)

- Introduction
- Objectives
- Implementations + Major Modules
- External Libraries
- Code Specific Features
- Work Distribution
- Novelty/ Creativity
- Problems and Solutions
- Conclusion

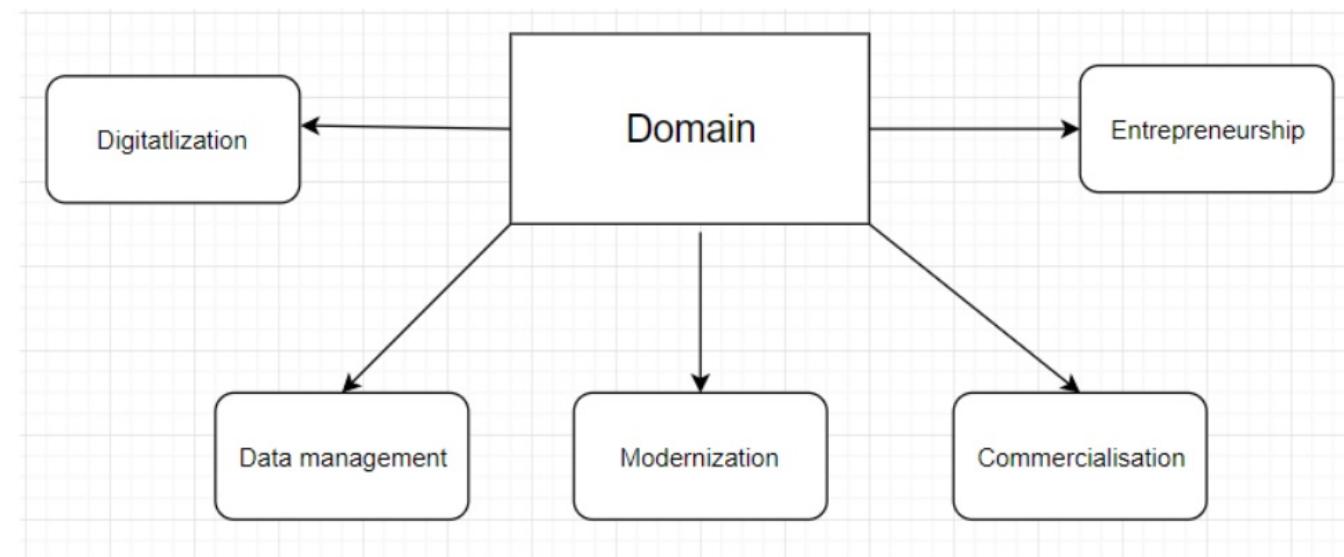
INTRODUCTION

E-menu card:

- Advancement of technology
- Automation

Domain

- Data Management and Handling
- Entrepreneurship (Business Startups)
- Digitalization\ Modernization



OBJECTIVES

Broader Objectives

- Convenient Data Handling (in terms of food startups)
- Serves the purpose of Digital Modernization

Program-Specific Objectives

- Provide a user-friendly interface
- Choice selection based on time
- Reduce labor cost

Implementational Objectives

- Commercialization



IMPLEMENTATION

Implementation:

- Entrepreneurship (business startups)
- Commercialization of an idea
- Developing world

Target audience:

- Foodies (program specific)
- Lay-man
- Developing nations

MODULES

Definition:

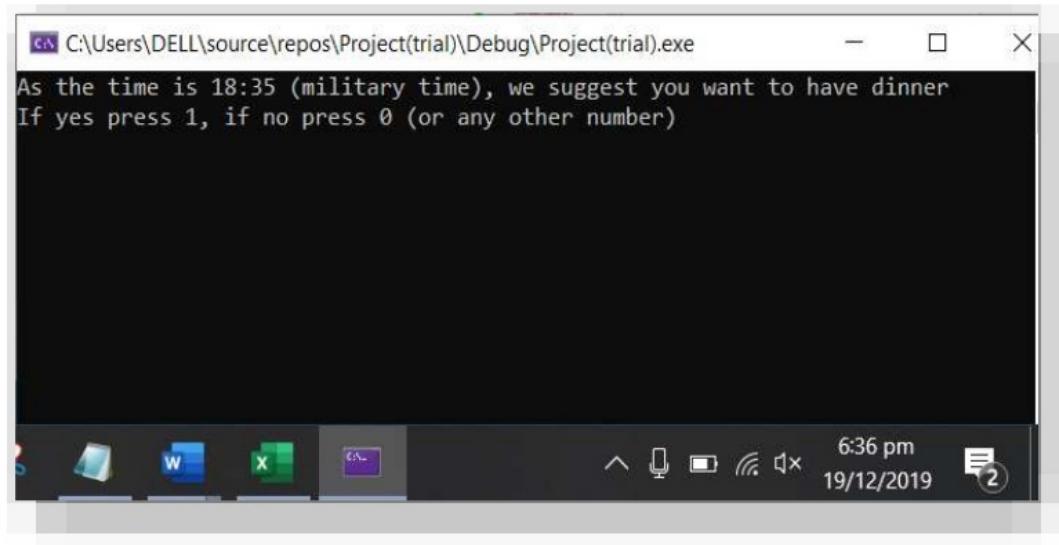
In software, a module is a part of a program. Programs are composed of one or more independently developed modules that are not combined until the program is linked. A single module can contain one or several routines.

Source:

<https://www.webopedia.com/TERM/M/module.html>

Module in E-Menu card:

We've included the independent choice-giving and decision-making modules, the implication of which is determined by a factor. Specifically, the modules are the functions and which would be specified to you by the time of that simulation.



Real time output snapshot

Libraries Included

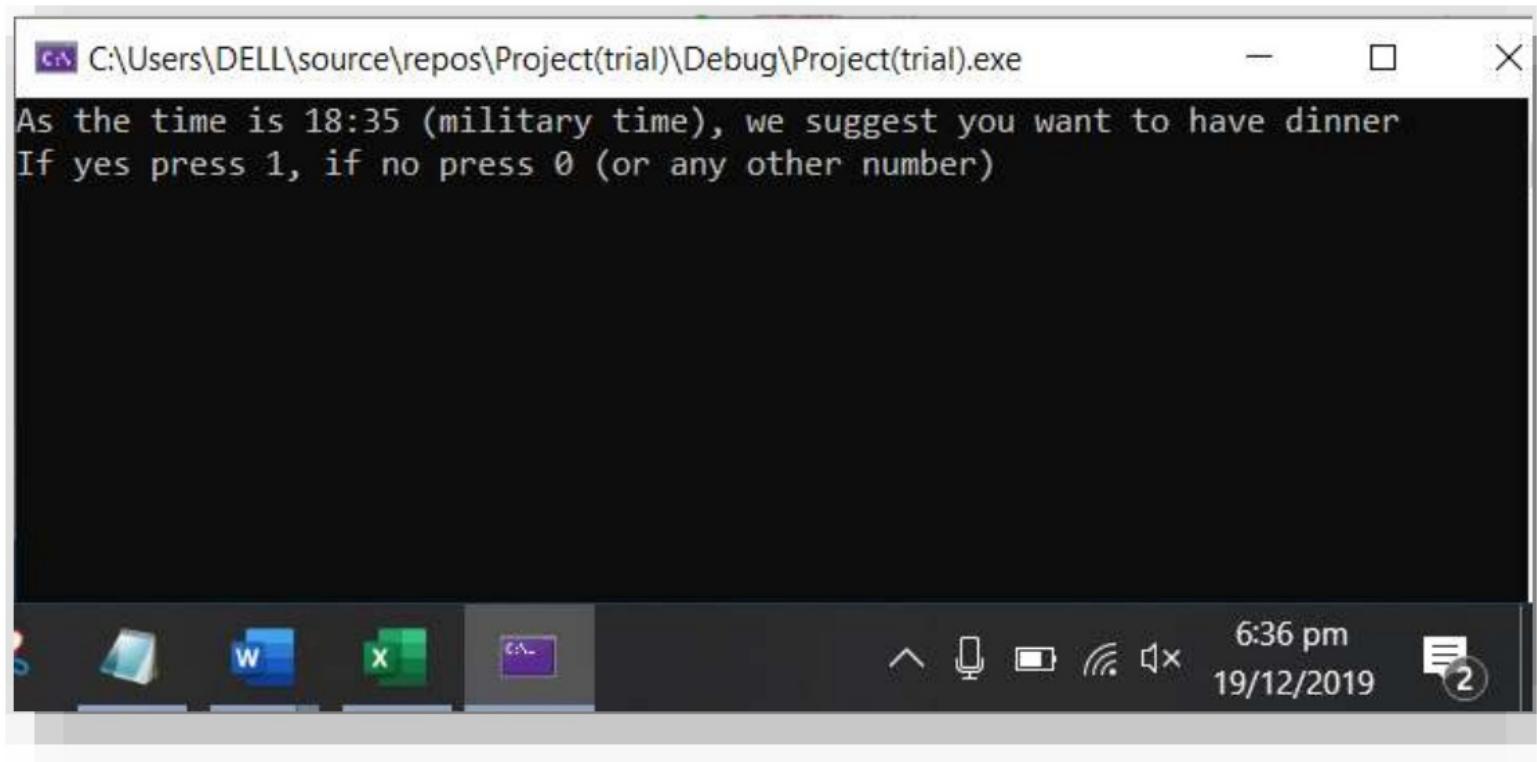
- In computer science, a library is a collection of non-volatile resources used by computer program, often for software development.
(WIKIPEDIA)
- For E-Menu card, we used the shown C-Programming libraries (header files)
- The functions included include:
 - Standard printf/scanf
 - gets/fgets
 - Time functions
 - System functions
 - String functions
 - Exit function

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#include <string.h>
```

Header files included

CODE SPECIFIC FEATURES

1. Time based judgement:



CODE SPECIFIC FEATURES

2. Interesting Intro screen

Don't mind this :D



CODE SPECIFIC FEATURES

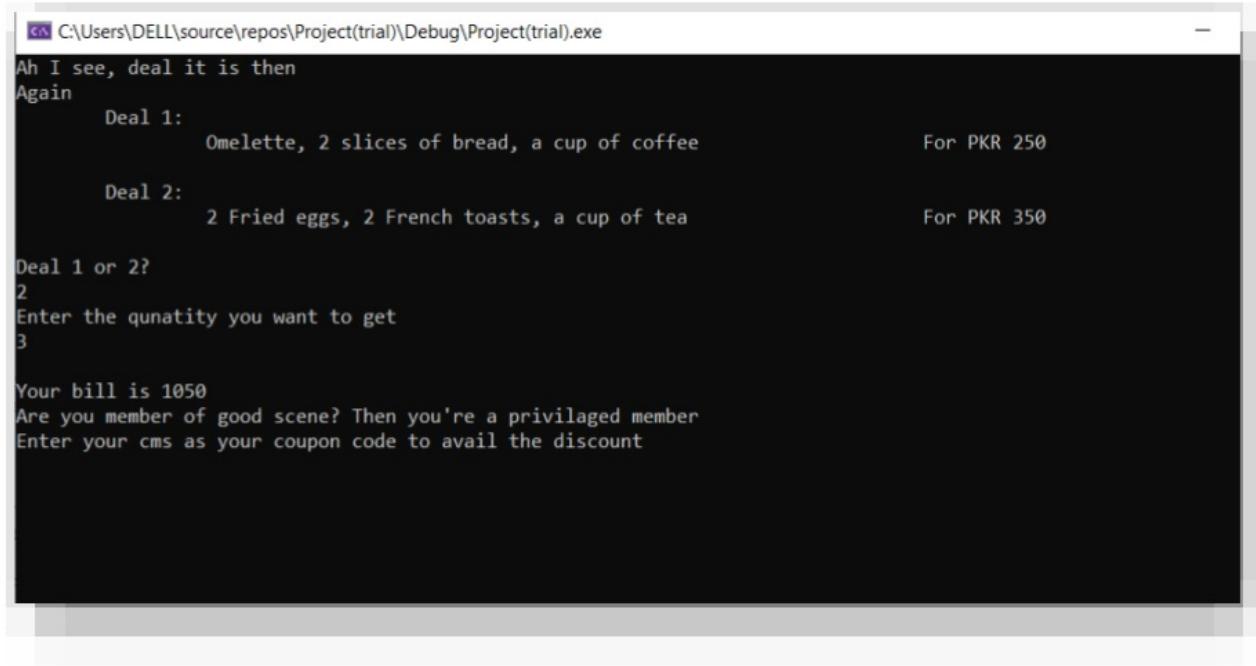
3. Descriptive menu screen

```
What do you want to have for breakfast?  
We have the following deals  
  
Deal 1:  
    Omelette, 2 slices of bread, a cup of coffee           For PKR 250  
  
Deal 2:  
    2 Fried eggs, 2 French toasts, a cup of tea          For PKR 350  
  
Deals don't suit you? Don't worry, you can pick individual stuff from the menu  
  
Eggs:  
1. Fried egg                                For PKR 30  
2. Omelette                                  For PKR 40  
3. Scrambled eggs                            For PKR 60  
  
Bread:  
1. Simple bread                            For PKR 20  
2. Simple bread with jam                  For PKR 50  
3. French toast                           For PKR 100  
4. Bran bread                               For PKR 70  
  
Beverages  
1. Coffee capuccino                      For PKR 100  
2. Coffee espresso                        For PKR 125  
3. Cold Coffee                            For PKR 175  
4. Tea                                     For PKR 50  
  
If you want to get a deal, type 'deal'  
If you want to pick individually, type 'no deal'
```

CODES SPECIFIC FEATURES

4. Discounts:

If you are privileged, you just need to enter your CMS.



A screenshot of a terminal window titled 'C:\Users\DELL\source\repos\Project(trial)\Debug\Project(trial).exe'. The window displays a menu with two deals:

Deal	Description	Price (PKR)
Deal 1:	Omelette, 2 slices of bread, a cup of coffee	250
Deal 2:	2 Fried eggs, 2 French toasts, a cup of tea	350

The user is prompted to choose 'Deal 1 or 2?' and enters '2'. They are then asked to 'Enter the quantity you want to get' and enter '3'. The final message states 'Your bill is 1050' and asks if they are a member of 'good scene? Then you're a privilaged member'. It also prompts them to 'Enter your cms as your coupon code to avail the discount'.

CODES SPECIFIC FEATURES

4. Discounts:

If you are privileged, you just need to enter your CMS.

Congratulations Sial, maybe your biggest achievement. Kidding.

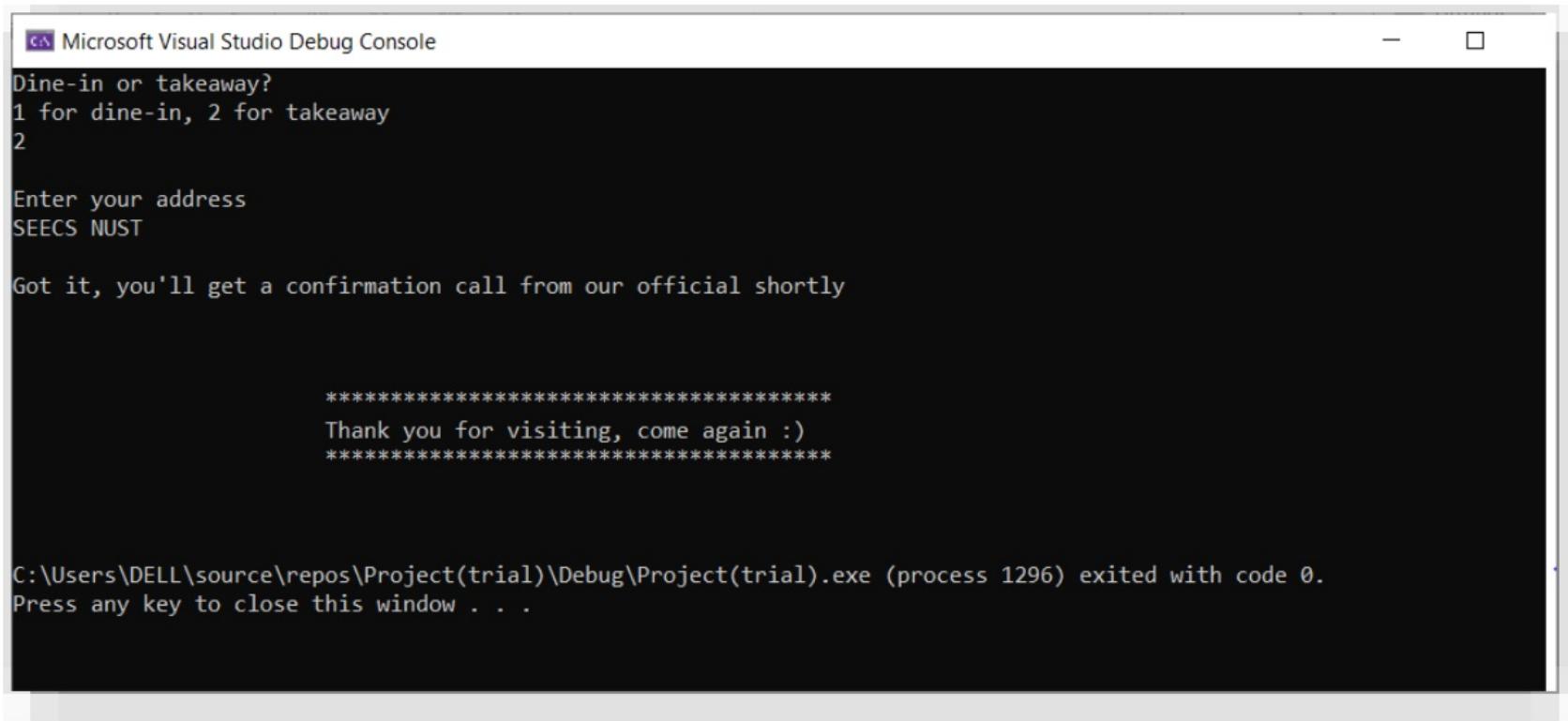
```
Microsoft Visual Studio Debug Console
Ah I see, deal it is then
Again
    Deal 1:
        Omelette, 2 slices of bread, a cup of coffee           For PKR 250
    Deal 2:
        2 Fried eggs, 2 French toasts, a cup of tea          For PKR 350
Deal 1 or 2?
2
Enter the qunatity you want to get
3

Your bill is 1050
Are you member of good scene? Then you're a privilaged member
Enter your cms as your coupon code to avail the discount
287400
Hello Sial
You're a privileged member Sial, you got 30 percent discount
Your bill after discount is 315 PKR

C:\Users\DELL\source\repos\Project(trial)\Debug\Project(trial).exe (process 14300) exited with code 0.
Press any key to close this window . . .
```

CODES SPECIFIC FEATURES

5. Exit screen:



The screenshot shows a Microsoft Visual Studio Debug Console window. The console displays the following text:

```
Microsoft Visual Studio Debug Console
Dine-in or takeaway?
1 for dine-in, 2 for takeaway
2

Enter your address
SEECS NUST

Got it, you'll get a confirmation call from our official shortly

*****
Thank you for visiting, come again :)
*****

C:\Users\DELL\source\repos\Project(trial)\Debug\Project(trial).exe (process 1296) exited with code 0.
Press any key to close this window . . .
```

WORK DIVISION

Sohaib

- I came up with the idea
- I carried out a research on the time functions and time.h header file.
- Subsequent code running/testing
- I wrote the prototype code

Atika

- I included features
- I researched about the menu/prices
- I carried out the written work/documentation
- I found existing similar work/references
- I did code testing/running too

We both contributed to the project

NOVELTY AND CREATIVITY

- **Novelty:**

The concept of an E-menu card has been used by various companies ranging from startups to multi-national food and beverage companies.

For the specific project, we surfed the internet and found one specific student project related to that. He used the idea of billing.

You never know, maybe by a simple addition of letter ‘i’ before this code based hardware may get billion dollar revenue.

- **Creativity:**

The love of food, when combined with the idea of billing, led to the idea of this project.

We had to set a parameter to set the discount giving criteria, we devised the CMS of students as coupon code.

Time based suggestions is given to the users.



PROBLEMS AND RESOLUTION

1. The ‘2019’ problem
2. Error code 6031
3. The ‘_s’ problem
4. Individual functions not working
5. ‘Running without building’
6. String getting problems

“My code doesn’t work and I don’t know why.
My code works now, still I don’t know how.”

1. “2019” PROBLEM

- The 2019 version of visual studio is somewhat different than the previous versions.
- Recommends more secure functions, their syntax is different in turn
- The same code when run in a previous version, gives no error.
- For example, scanf when used in 2019 studio, ignores the return value.

The screenshot shows a Microsoft Visual Studio code editor window. The code is as follows:

```
char coupon1[7] = "297333";
char coupon8[7] = "297333";
char coupon9[7] = "291196";
char coupon10[7] = "287400";
char entered_coupon[7];

printf("Are you member of good scene? Then you're a privileged member\n");
printf("Enter your cms as your coupon code to avail the discount\n");

scanf("%s", &entered_coupon);

if (strcmp(entered_coupon, coupon1) == 0) {
    printf("Hello boss\n");
    printf("Everything is free for you boss\n");
    x = 0;
}
else if (strcmp(entered_coupon, coupon2) == 0) {
    printf("Hello boss lady\n");
    printf("Everything is free for you boss\n");
    x = 0;
}
else if (strcmp(entered_coupon, coupon3) == 0) {
    printf("Hello Muazz\n");
}
```

A tooltip is displayed over the `scanf("%s", &entered_coupon);` line, showing:

- (local variable) `char entered_coupon[7]`
- Search Online

In the bottom left corner of the code editor, there is an "Output" tab.

2. ERROR CODE 6031

- It's related to the problem number 1.
- Error code 6031 basically prompts the user to use `scanf_s`, because it is more secure and checks for return value.

Closed - Not a Bug visual studio 2019 version 16.1 windows 10.0

 Gahtan Algahtani reported Jun 29 at 06:42 PM

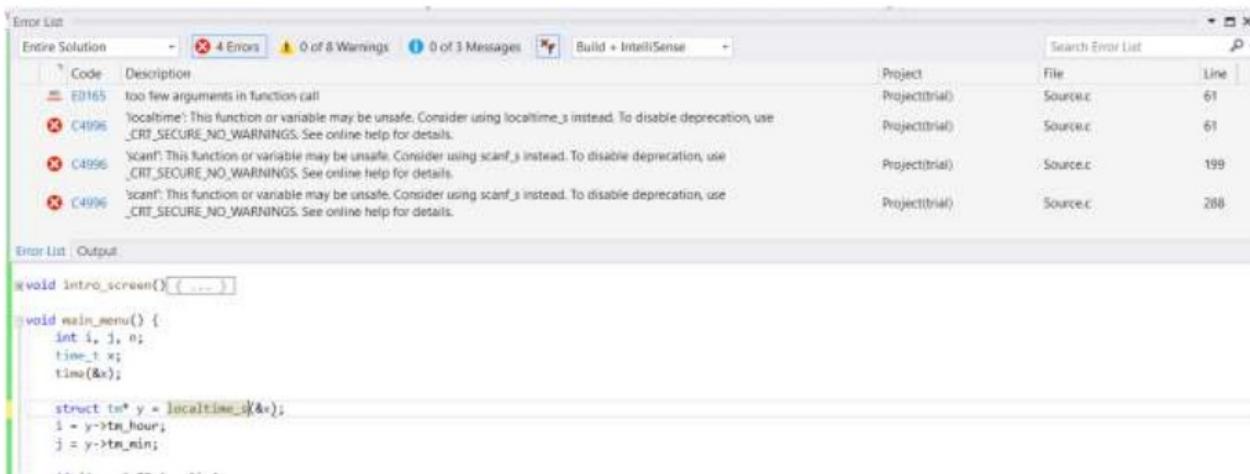
Dear everyone
could you tell me please what is wrong with the following code, it keep telling me about (**C6031** Retun value ignored: 'scanf' & **C4996** 'scanf': This function or variable may be unsafe. Consider using `scanf_s` instead. To disable deprecation, use `_CRT_SECURE_NO_WARNINGS`. See online help for details.)
please I need your help

I feel you.



3. _S PROBLEM

- All the problems are inter related.
- The _s problems in the function is due to the same reason. Visual studio 2019.
- The same functions, when used in the previous versions, gave no error.



The screenshot shows the 'Error List' window in Visual Studio 2019. It displays four C4996 warnings, which are deprecated function calls. The errors are listed in the 'Code' column, and their descriptions are in the 'Description' column. The 'File' and 'Line' columns show the location of each warning in the source code. The source code itself is visible in the bottom pane, showing parts of the `intro_screen()` and `main_menu()` functions.

Code	Description	Project	File	Line
E0165	too few arguments in function call localtime: This function or variable may be unsafe. Consider using localtime_s instead. To disable deprecation, use _CRT_SECURE_NO_WARNINGS. See online help for details.	Project1trial	Source.c	61
C4996	'scanf': This function or variable may be unsafe. Consider using scanf_s instead. To disable deprecation, use _CRT_SECURE_NO_WARNINGS. See online help for details.	Project1trial	Source.c	61
C4996	'scanf': This function or variable may be unsafe. Consider using scanf_s instead. To disable deprecation, use _CRT_SECURE_NO_WARNINGS. See online help for details.	Project1trial	Source.c	199
C4996	'scanf': This function or variable may be unsafe. Consider using scanf_s instead. To disable deprecation, use _CRT_SECURE_NO_WARNINGS. See online help for details.	Project1trial	Source.c	288

```
void intro_screen(){ ... }

void main_menu(){
    int i, j, n;
    time_t x;
    time(&x);

    struct tm* y = localtime_s(&x);
    i = y->tm_hour;
    j = y->tm_min;
```

OTHER PROBLEMS:

- Function call malfunctioning:**

Functions, when given the name of main, worked. But, the same functions when called by a function within main, didn't execute gets/fgets statements and made decisions on their own.

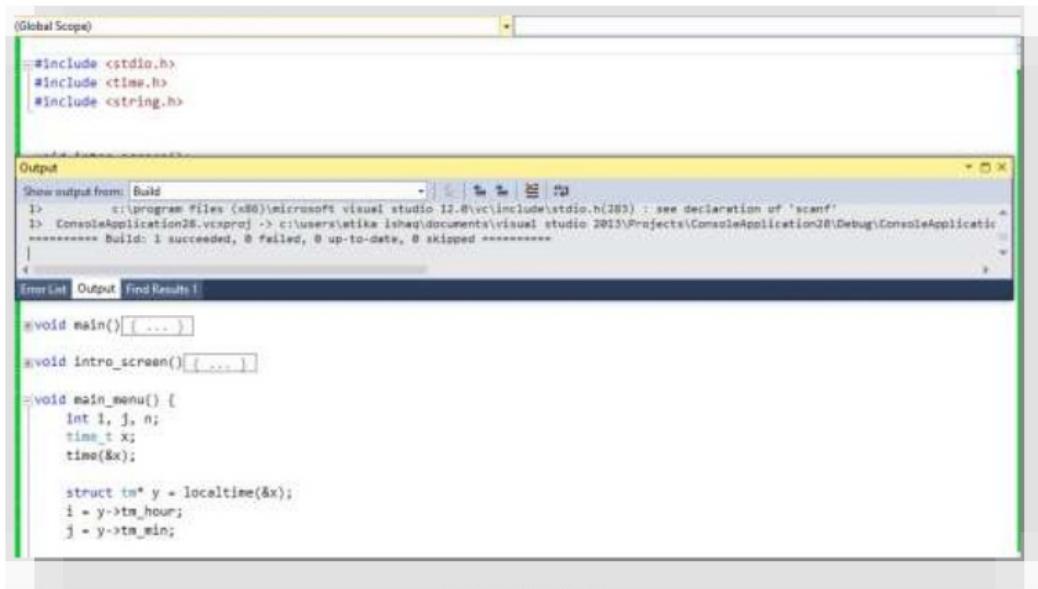
- String errors:**

Strcmp (string compare function) wasn't running.

- Building without running:**

To save time, we didn't built the program every time we ran it, and noticed that it didn't give the expected output.

RESOLUTION OF PROBLEMS



The screenshot shows the Microsoft Visual Studio 2013 interface. The code editor window at the top contains the following C code:#include <stdio.h>
#include <time.h>
#include <string.h>

void main() { ... }

void intro_screen() { ... }

void main_menu() {
 int i, j, n;
 time_t x;
 time(&x);

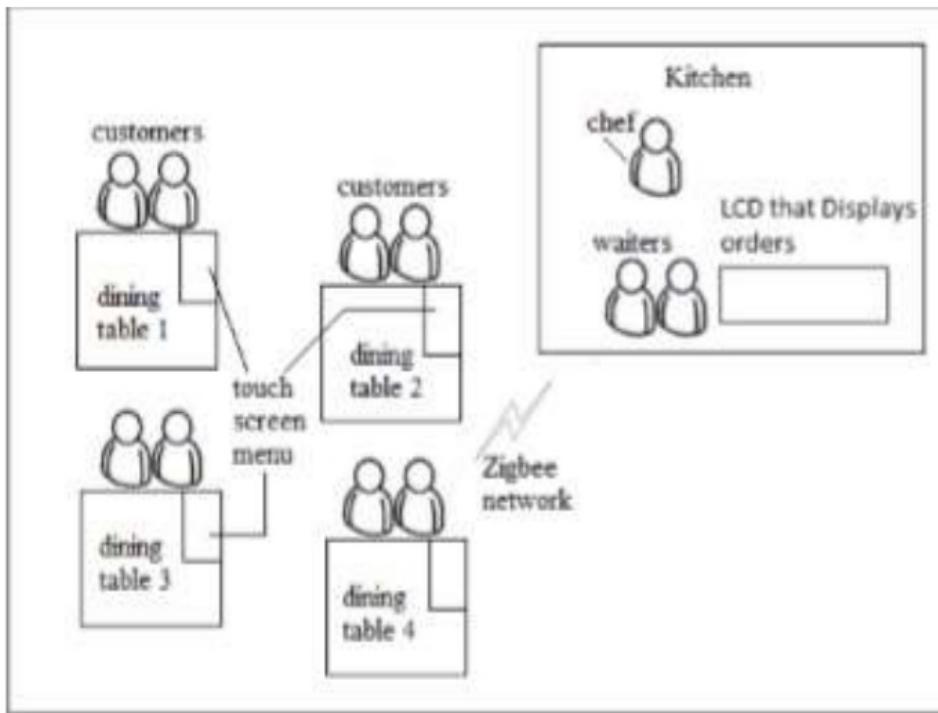
 struct tm* y = localtime(&x);
 i = y->tm_hour;
 j = y->tm_min;The output window below shows a successful build process:Show output from: Build
1> c:\program files (x86)\microsoft visual studio 12.0\vc\include\stdio.h(28) : see declaration of 'scanf'
1> ConsoleApplication26.vcxproj -> c:\users\etika ismag\documents\visual studio 2013\Projects\ConsoleApplication26\Debug\ConsoleApplication26.exe
=====
Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped =====

VS 2013

- The ‘not secure’ error was disabled using the statement [`#pragma warning(disable : 4996)`].
- Functions whose functionality was getting ignored were used twice. For this purpose, a loop was created.
- Visual studio 2013 was used. Our labs don’t have 2019 versions, maybe that’s why such complexities about it is not taught to us.
- Error code 6031 was removed by learning the syntax of secure functions.
- `_s` problem got resolved through the previous measures taken.
- `String.h` header file was included for the working of `strcmp`.

CONCLUSION

- This project tackles with solving the issues faced in restaurants regarding data management, serving order, entrepreneur in the attempt to run the restaurant in a more effective way. It will reduce the error of serving the order at wrong place. Through this E-menu card system, people will conveniently place the order and it will be delivered in time. This is an effective way of taking order in a restaurant that benefits both customer and entrepreneur. So, this system should be implemented as technology brings revolution.



THANK YOU😊

