



**PES UNIVERSITY**  
(Established under Karnataka Act No. 16 of 2013)  
100 Ft. Road, BSK III Stage, Bengaluru – 560 085

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

<b>Course Title: Problem Solving with C Laboratory</b>		
<b>Course code: UE19CS152</b>		
<b>Semester : II SEM</b>	<b>Section: F</b>	<b>Team Id:15</b>
<b>SRN: PES2UG19CS265</b>	<b>Name: Nishanth . S</b>	
<b>SRN: PES2UG19CS257</b>	<b>Name: Nikhil Adyapak</b>	
<b>SRN: PES2UG19EC166</b>	<b>Name: Yogesh S</b>	
<b>SRN: -</b>	<b>Name: -</b>	

## **PROJECT REPORT**

**Problem Statement:** Restaurant billing

**Description:** The program's main purpose is to mimic the way the billing at the restaurant happens. The program deals with adding , deleting, adding multiple entries to the menu item list.

**C-concepts used:** Dynamic memory allocation, arrays, array of pointers, control structures, function concept.

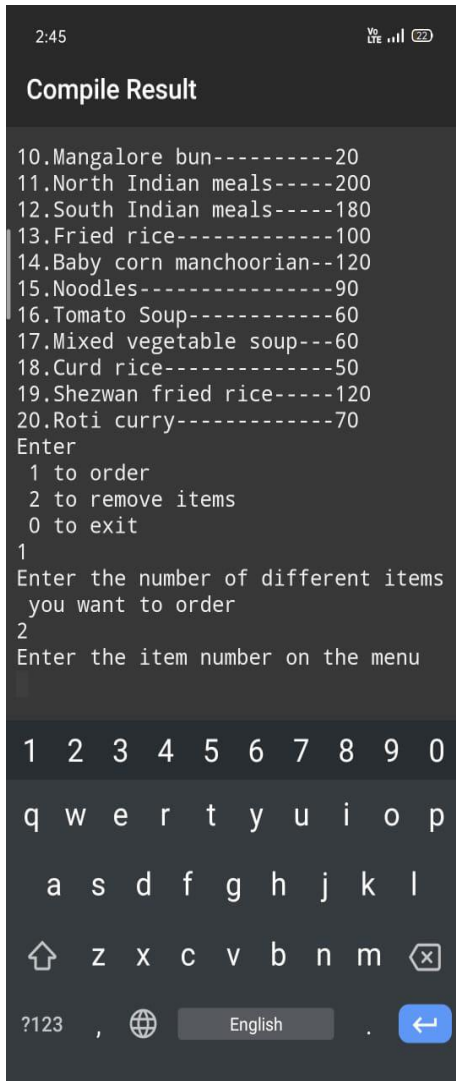
**Learning Outcome:**

We understood the various types the dynamic memory allocation can be put to use. The different types of dynamic memory allocation.

It was observed that during the entry of data a particular block of memory was given to the data during runtime, so it was easier to edit the entered data. It was of a major advantage than using the basic arrays as the arrays have a fixed size memory and cannot be altered with it.

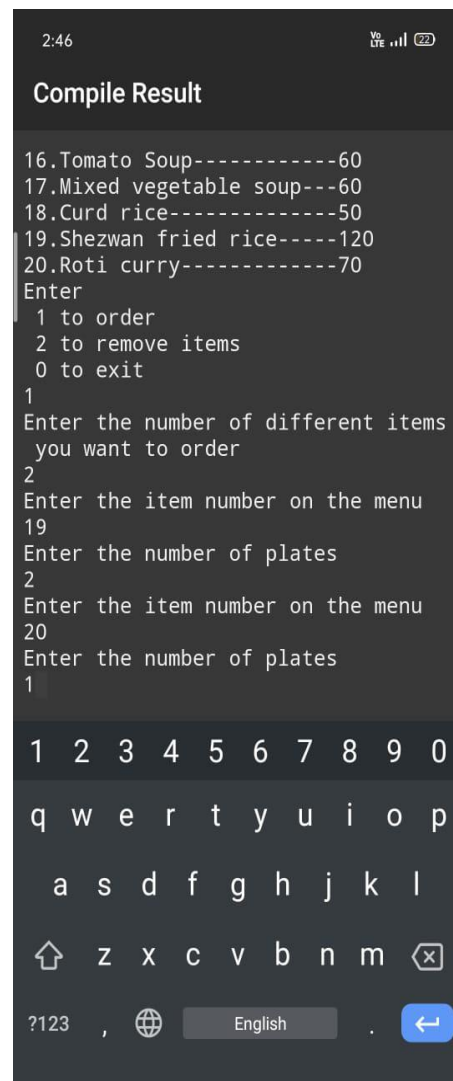
## Output Screenshots

Fig1 : Main page



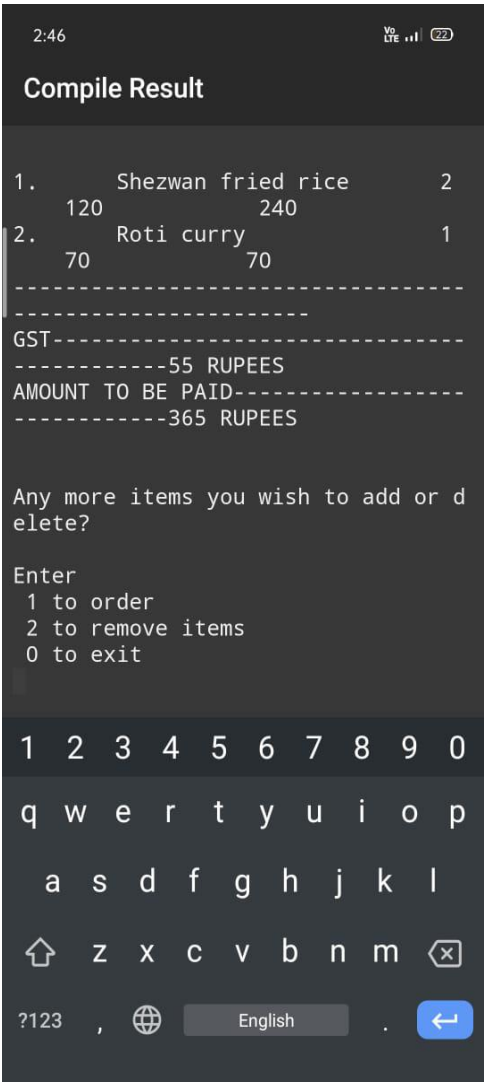
*In this we have ran the code and the menu items are displayed*

Fig2: Number of plates



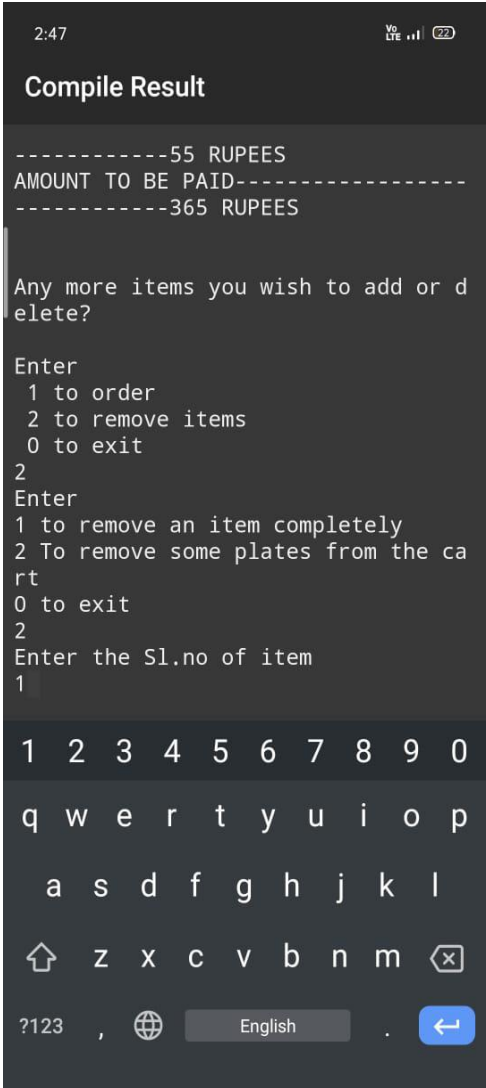
*Prompt for different items*

Fig 3: Changes to the items



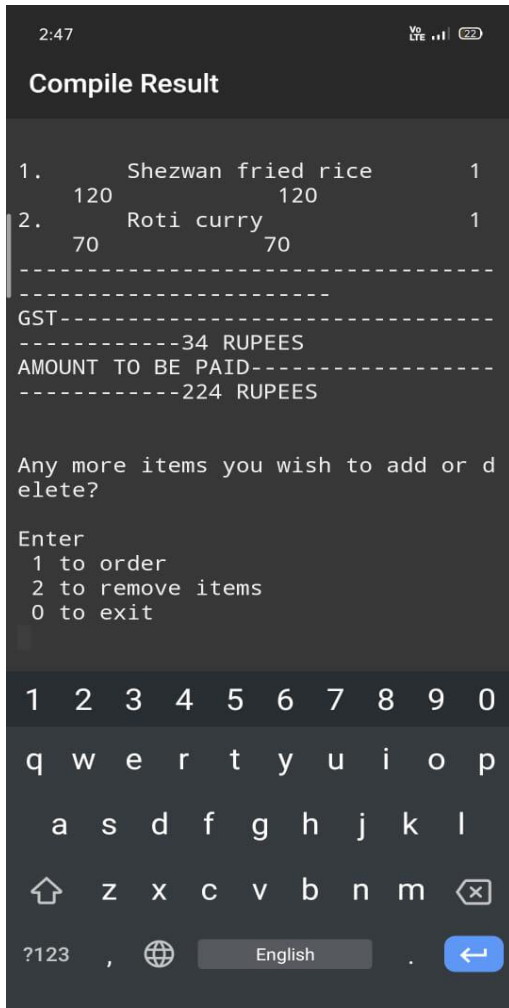
Here, after we have typed the items, it then prompts whether we still want to

Fig 4: More items prompt



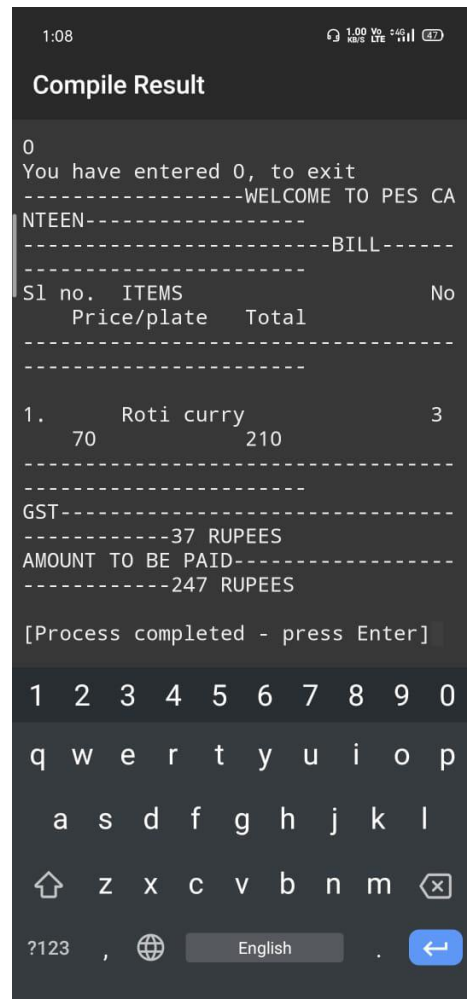
We are removing the items here.

Fig 5: Add or delete



*Further options are prompted*

Fig 6: Exit



*When we use the exit option it shows the updated final bill*

**Name and Signature of the faculty:**