

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

Course Title: Problem Sol	lving with C Laboratory	
Course code: UE19CS152		
Semester: II SEM	Section: F	Team Id:15
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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

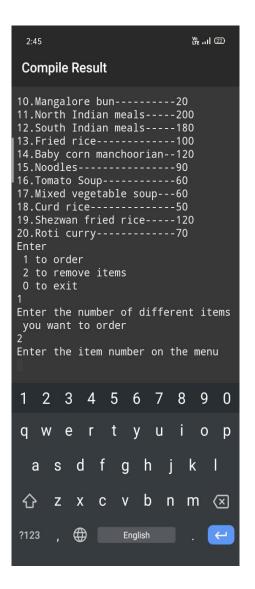


Fig2:Number of plates

```
2:46
                        ₩ ...I 22
Compile Result
16.Tomato Soup-----60
17.Mixed vegetable soup---60
18.Curd rice-----50
19. Shezwan fried rice----120
20.Roti curry-----70
Enter
1 to order
2 to remove items
0 to exit
Enter the number of different items
you want to order
Enter the item number on the menu
Enter the number of plates
Enter the item number on the menu
Enter the number of plates
  2 3 4 5 6 7 8 9 0
qwertyuiop
  asdfghjkl
        x c v b n m 🗵
       English
```

In this we have ran the code and the menu items are displayed Prompt for different items





Here, after we have typed the items, it then prompts whether we still want to We are removing the items here.

Fig 5: Add or delete

t y u i

g

С

h j k

v b n m

Fig 6: Exit

1:08		
Compile Result		
0 You have entered 0, to exitWELCOME TO PES CA NTEEN		
Sl no. ITEMS No Price/plate Total		
1. Roti curry 3 70 210		
GST37 RUPEES AMOUNT TO BE PAID		
[Process completed - press Enter]		
1 2 3 4 5 6 7 8 9 0		
qwertyuiop		
asdfghjkl		
습 z x c v b n m ⊠		
?123 , (Constitution English . (Constitution)		

Further options are prompted

е

d

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

Name and Signature of the faculty: