RESTAURANT MANAGEMENT SYSTEM

A MINI PROJECT REPORT

Submitted by

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MADURAI

BONAFIDE CERTIFICATE

This is to certify that this project report "**restaurant management system"** is the bonafide work of **G.bhuvaneshwari, E.nanthini, G.R.sailendri, B.srinisha, V.subashree,T.P.vikashini** who carried out the project work under my supervision.

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ABSTRACT

Now we are in technological age. Every work is being completed in a fraction of second.Do we wait in week end in restaurants for food? Absolutely not .So we planned to start a restaurant with many special features . A grand welcome to our PSP restaurant . Here in this mini project we are dealing with restaurant management system , by maintaining the employees details, attendance, salary.Here we are going to handle the employee details by using normal coding and we are going to store the details in different variables. The salary and attendance is maintained by using the concept of File. In our restaurant, we have decided to provide many recipes under various varities like South indian, Fast foods, and delicious deserts like Ice creams,Milkshakes etc. The part of cook is very important,it boosts the fame of restaurant.We get veggies and fruits from a reputed Organic Farm. We are going to get choice from user and we will provide what exactly the user wants. According to the food they have choosen,they will receive bills.So with few more special features our restaurants will deliver food in short span of time.We have parcel system too. This is the main concept which we are going to implement in forecoming days.

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CHAPTER 1

INTRODUCTION

Restaurant management:

We propose to build a software project that can efficiently handle and manage various activities of a restaurant and all these activities will be happening under the supervision of the administrator. The businesses in restaurants are now growing constantly. At the same time, the need for managing its operations and tasks arises. The best way to optimize these activities is growing the business online as well. Today's generation encourages high-tech services especially over the Internet. Hence the project is developed proficiently to help restaurant owners automate their business operations. This project serves the best way of maintaining customer's information and caters their needs.

Python:

Python is a widely used high-level programming language for general-purpose programming, created by Guido van Rossum and first released in 1991. An interpreted language, Python has a design philosophy that emphasizes code readability (notably using whitespace indentation to delimit code blocks rather than curly brackets or keywords), and a syntax that allows programmers to express concepts in fewer lines of code than might be used in

languages such as C++ or Java. It provides constructs that enable clear programming on both small and large scales. That's why we choose python as our programming language.

Applications:

Here, we have used file operations effectively to store data. We have also used user defined functions for selections. We have used "dictionary" data type to store the names of the food items and their cost.

File operations:

Python has a built-in function open() to open a file. This function returns a file object, also called a handle, as it is used to read or modify the file .We can specify the mode while opening a file. In mode, we specify whether we want to read 'r', write 'w' or append 'a' to the file. We also specify if we want to open the file in text mode or binary mode. The default is reading in text mode. In this mode, we get strings when reading from the file.On the other hand, binary mode returns bytes and this is the mode to be used when dealing with non-text files like image or exe files.

User defined functions:

User-defined functions help to decompose a large program into small segments which makes program easy to understand, maintain and debug. If repeated code occurs in a program. Function can be used to include those codes and execute when needed by calling that function. Programmars working on large project can divide the workload by making different functions.

Dictionary:

It is an associative array. It consists of key value pairs. Each key is separated from its value by a colon (:), the items are separated by commas, and the whole thing is enclosed in curly braces. An empty dictionary without any items is written with just two curly braces, like this: {}.Keys are unique within a dictionary while values may not be. The values of a dictionary can be of any type, but the keys must be of an immutable data type such as strings, numbers, or tuples.

CHAPTER 2

SYSTEM SPECIFICATION

2.1 HARDWARE SPECIFICATIONS

- Processor : Intel dual core
- Processor speed : 1.04GHZ
- Ram : 1GB
- Hard disc : 20GB hard disc
- Monitor : LCD
- Keyboard : MM Keyboard(Usb)
- Mouse : Optical mouse(Usb)

2.2 SOFWARE SPECIFICATIONS

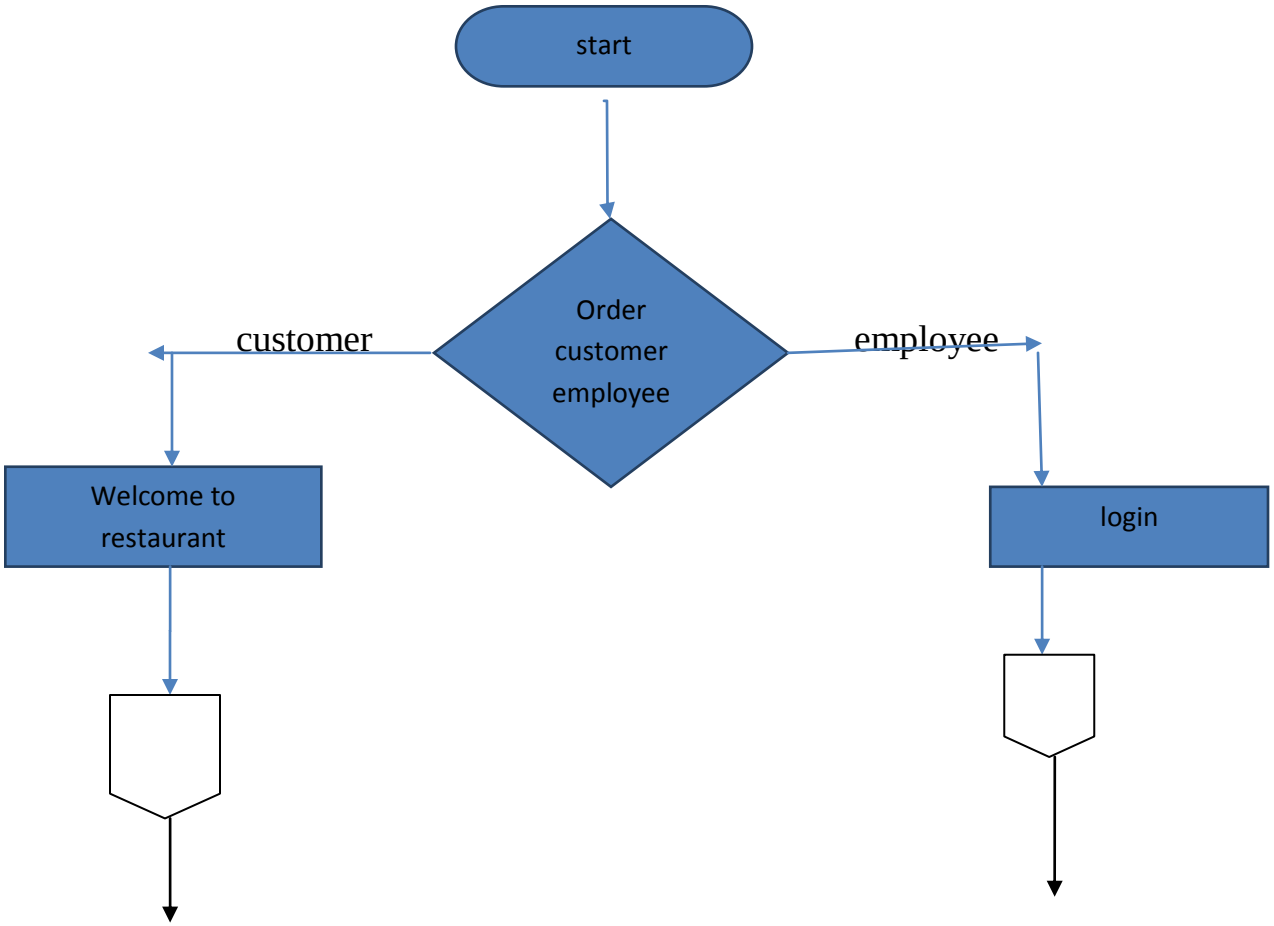
- OS : Window XP or above
- Language (IDLE) : Python 3.6 or higher (including Python 3)
- Packages : NumPy >= 1.6.1 , matplotlib >= 1.0.0
- IDE (set up) : Anaconda (Whatever IDE you have used in the project)

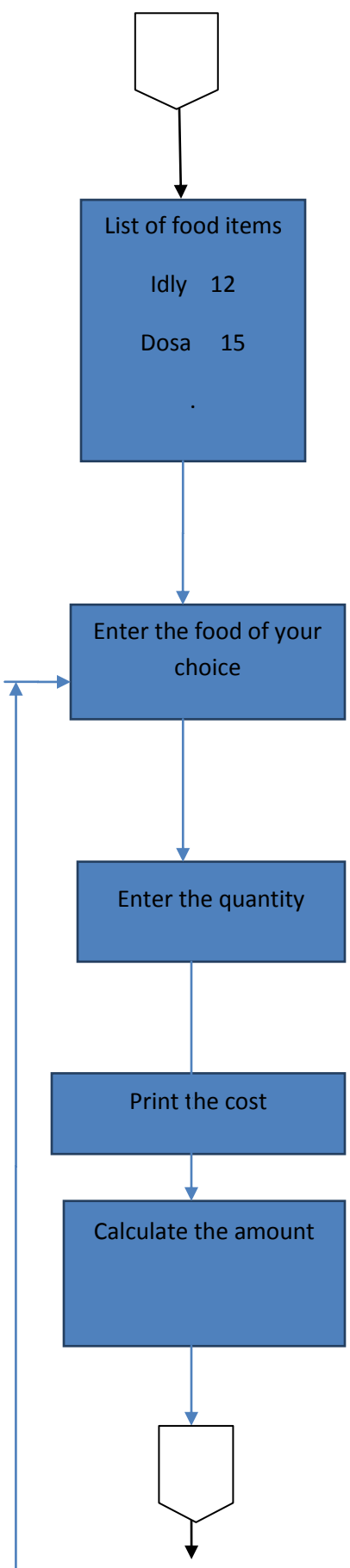
CHAPTER 3

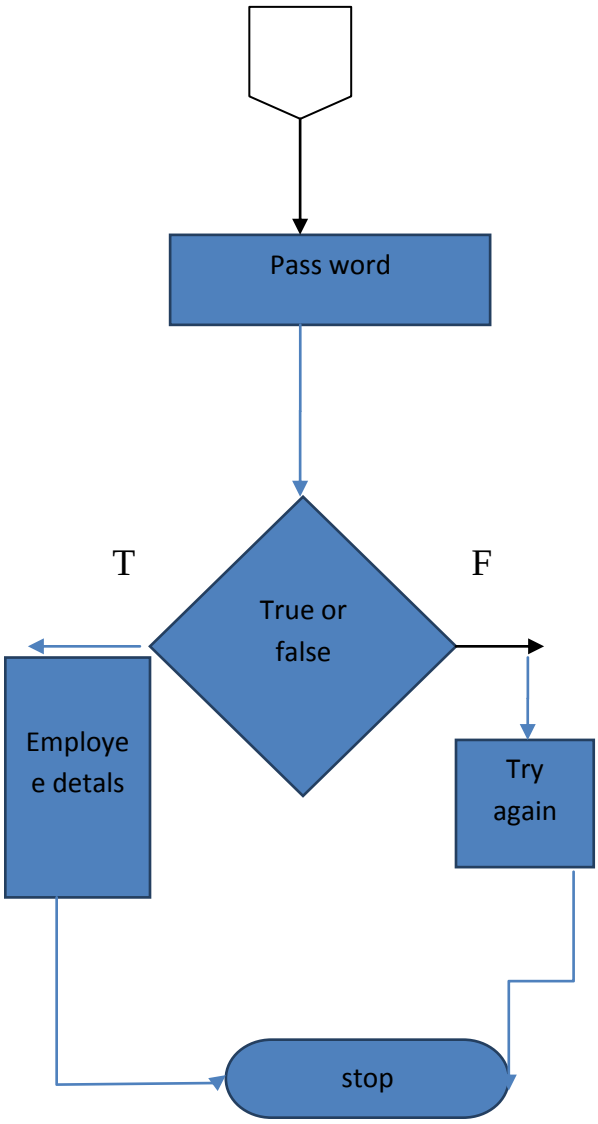
SYSTEM DESIGN AND IMPLEMENTATION

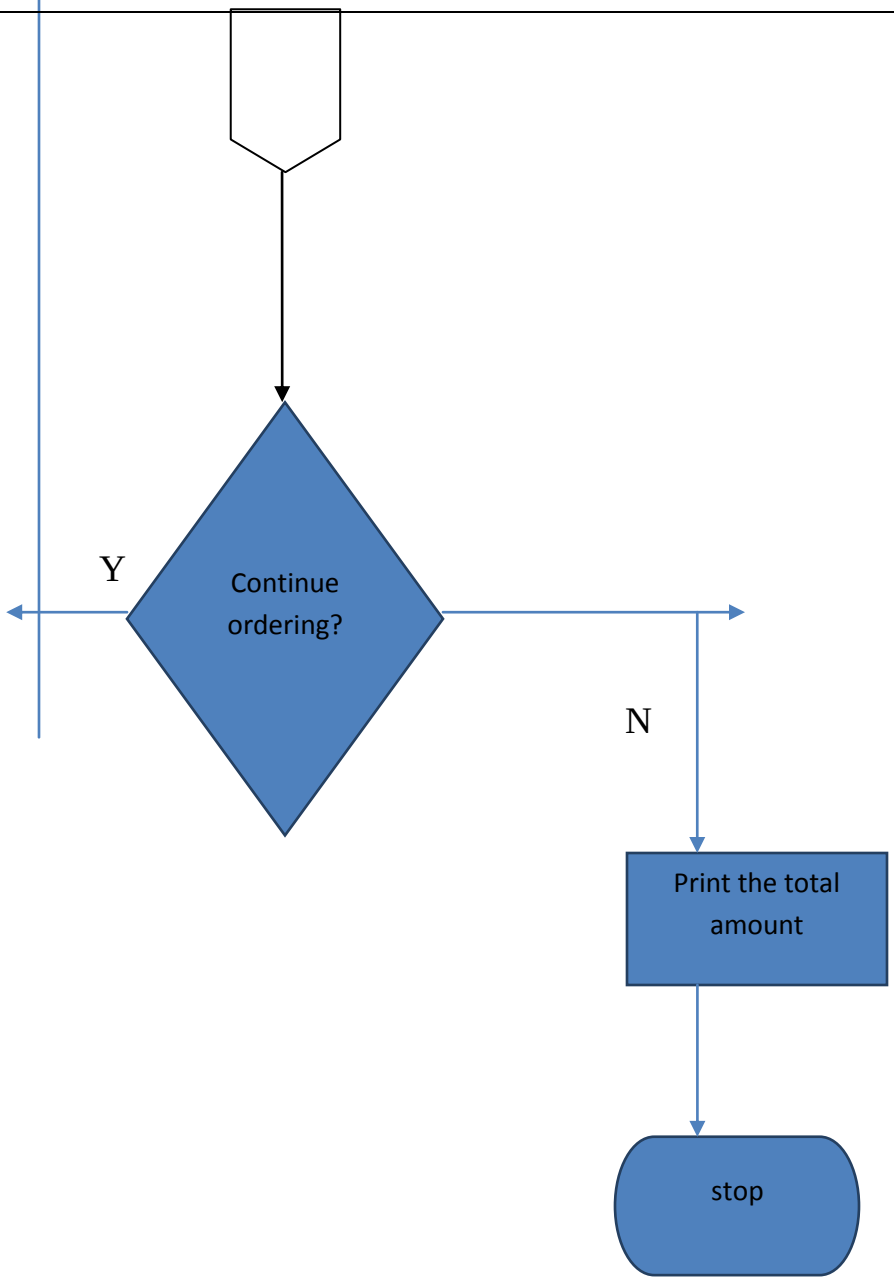
3.1 SYSTEM DESIGN

The customer should press 1 and then they can select the food they required, then they have to enter the quantity. once they ordered the food they will receive their bill. To view the employees details manager should have to press 2 and then the login id and password.




List of food items
Idly 12
Dosa 15
.
Enter the food of your choice
Enter the quantity
Print the cost
Calculate the amount


Pass word
T
F
True or false
Employe e detals
Try again
stop


Y
Continue ordering?
N
Print the total amount
stop

3.2 **SYSTEM IMPLEMENTATION**

FUNCTIONS:

- Manager function
- Customer function

MANAGER FUNCTION:

This function allows manager to login into the system , where manger can view the details of all the staff working in the restaurant. If the login or password is invalid it does not display anything. Only manager can use this function.

CUSTOMER FUNCTION:

This function allows customer to order foods. customers can order south Indian foods ,desserts, fastfoods etc..They will be receiving their bill

accordingly .

SYSTEM ANALYSIS

EXISTING SYSTEM

Restaurant management is the system of maintaining employee details and serve food to customers. In general, they are not maintaining the details of the employee and not supervising their work (i.e serving the food).So the details should be maintained properly and look after their duties.

LIMITATIONS

- The restaurant will be over crowded.
- Serving of food is delayed.
- The customer have to wait for a long time.

PROPOSED SYSTEM

ADVANTAGE

- The online booking facility is available.
- It will be useful for the customers.

- They need not wait for a long time.

CHAPTER 4

CONCLUSION

This project has been proposed to automate functionalities in a restaurant management system. This project is made user friendly, any number of customers can use it at a same time. This project provides numerous options and helps in all customer needs and it enables manager to know the details of every employee working there. Hence an user friendly automated environment is created for restaurant management system.

APPENDIX - I

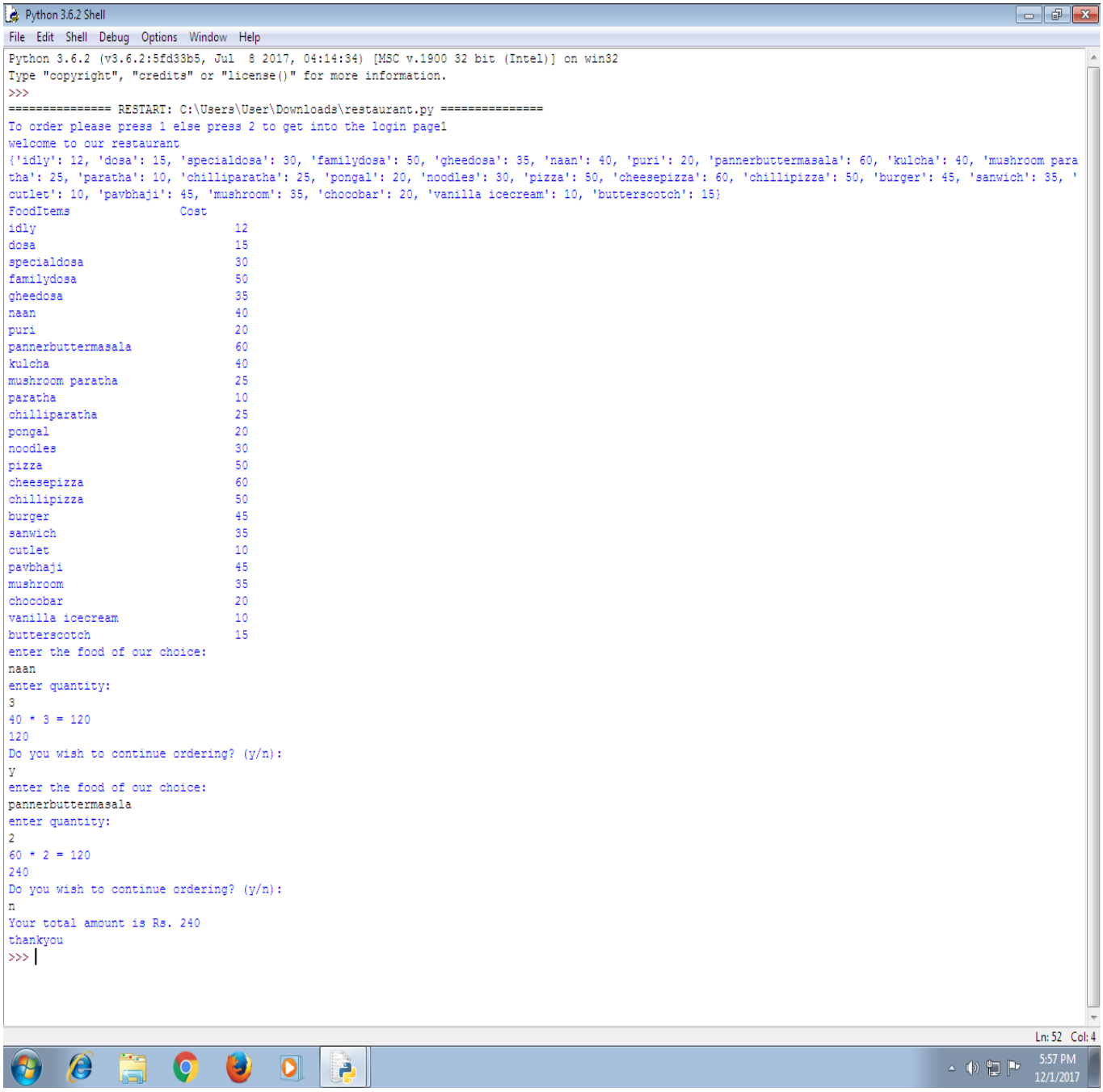
SOURCE CODE

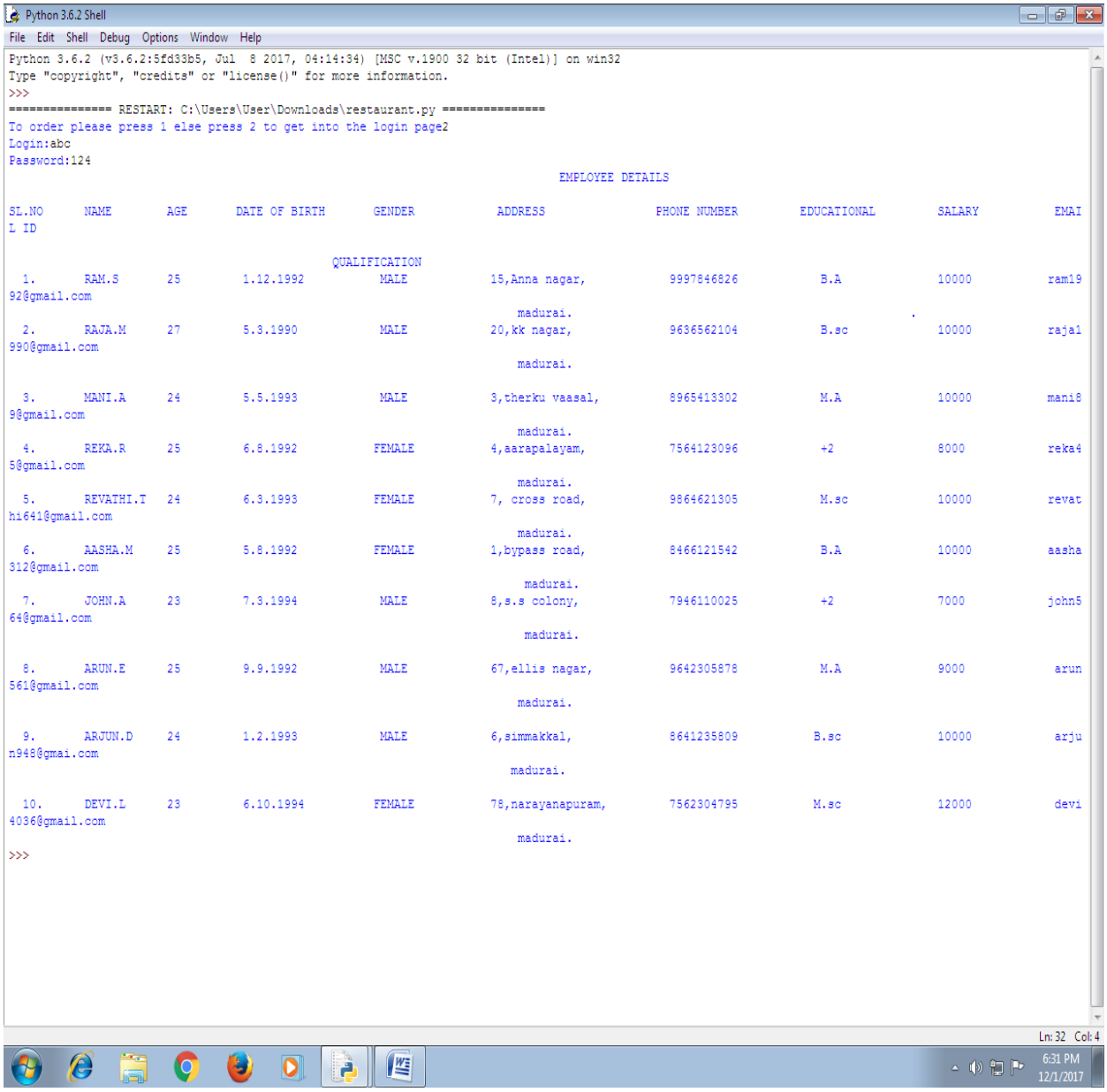
```
def manager():
    l=input("Login:")
    p=input("Password:")
    if(l!="abc" or p!="124"):
        print("Try again")
    else:
        print("Choose\n1.Employee details\n2.Employee salary")
        c=int(input("Enter your choice:"))
        if(c<=0 and c>3):
            print("try again")
        else:
            if(c==1):
                file="employee details1.txt"
                f=open(file,'r+')
```

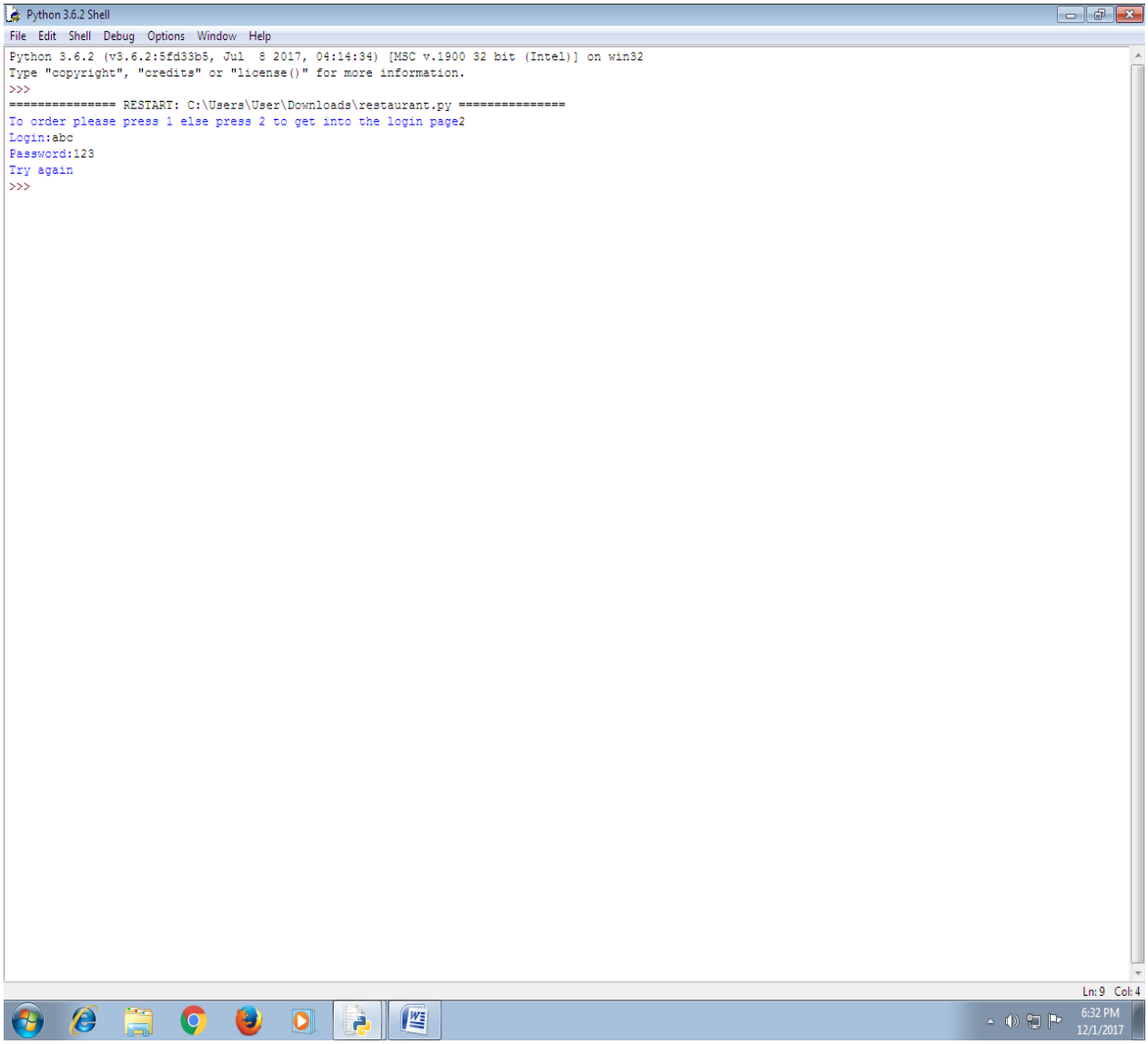
```
            text=f.read()
            print(text)
            f.close()
        elif(c==2):
            file="employee details1.txt"
            f=open(file,'r+')
            text=f.read()
            print(text)
            f.close()
    return()
print("welcome",manager())

print("hello customer")

print("welcome to our restaurant")

dict={'idly':12,'dosa':15,'specialdosa':30,'familydosa':50,'gheedosa':35,'naan':
40,'puri':20,'pannerbuttermasala':60,'kulcha':40,'mushroom
```

```
paratha':25,'paratha':10,'chilliparatha':25,'pongal':20,'noodles':30,'pizza':50,
'cheesepizza':60,'chillipizza':50,'burger':45,'sanwich':35,'cutlet':10,'pavbhaji':
45,'mushroom':35,'chocobar':20,'vanilla icecream':10,'butterscotch':15}
print(dict)
print('FoodItems\t\t Cost')
for item, cost in dict.items():
    print('{:<20}\t\t {:<20}'.format(item, cost))
cost = 0
choice = 'y'


while(choice == 'y'):


    print("enter the food of our choice:")
    f=str(input())
    print("enter quantity:")
    n=int(input())
    cost += dict[f]*n
    print(dict[f],"*",n,"=",dict[f]*n)
```

```
    print(cost)
    print("Do you wish to continue ordering? (y/n):")
    choice=str(input())


print("Your total amount is Rs.",cost)
print("thankyou")
```


Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\User\Downloads\restaurant.py ==========
To order please press 1 else press 2 to get into the login page1
welcome to our restaurant
{'idly': 12, 'dosa': 15, 'specialdosa': 30, 'familydosa': 50, 'gheedosa': 35, 'naan': 40, 'puri': 20, 'pannerbuttermasala': 60, 'kulcha': 40, 'mushroom para
tha': 25, 'paratha': 10, 'chilliparatha': 25, 'pongal': 20, 'noodles': 30, 'pizza': 50, 'cheesepizza': 60, 'chillipizza': 50, 'burger': 45, 'sanwich': 35, '
cutlet': 10, 'pavbhaji': 45, 'mushroom': 35, 'chocobar': 20, 'vanilla icecream': 10, 'butterscotch': 15}
FoodItems Cost
idly 12
dosa 15
specialdosa 30
familydosa 50
gheedosa 35
naan 40
puri 20
pannerbuttermasala 60
kulcha 40
mushroom paratha 25
paratha 10
chilliparatha 25
pongal 20
noodles 30
pizza 50
cheesepizza 60
chillipizza 50
burger 45
sanwich 35
cutlet 10
pavbhaji 45
mushroom 35
chocobar 20
vanilla icecream 10
butterscotch 15
enter the food of our choice:
naan
enter quantity:
3
40 * 3 = 120
120
Do you wish to continue ordering? (y/n):
y
enter the food of our choice:
pannerbuttermasala
enter quantity:
2
60 * 2 = 120
240
Do you wish to continue ordering? (y/n):
n
Your total amount is Rs. 240
thankyou
>>>
Ln: 52 Col: 4
5:57 PM
12/1/2017


Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\User\Downloads\restaurant.py ==========
To order please press 1 else press 2 to get into the login page2
Login:abc
Password:124
EMPLOYEE DETAILS
SL.NO NAME AGE DATE OF BIRTH GENDER ADDRESS PHONE NUMBER EDUCATIONAL SALARY EMAI
L ID
QUALIFICATION
1. RAM.S 25 1.12.1992 MALE 15,Anna nagar, 9997846826 B.A 10000 ram19
92@gmail.com
madurai.
2. RAJA.M 27 5.3.1990 MALE 20,kk nagar, 9636562104 B.sc 10000 raja1
990@gmail.com
madurai.
3. MANI.A 24 5.5.1993 MALE 3,therku vaasal, 8965413302 M.A 10000 mani8
9@gmail.com
madurai.
4. REKA.R 25 6.8.1992 FEMALE 4,aarapalayam, 7564123096 +2 8000 reka4
5@gmail.com
madurai.
5. REVATHI.T 24 6.3.1993 FEMALE 7, cross road, 9864621305 M.sc 10000 revat
hi641@gmail.com
madurai.
6. AASHA.M 25 5.8.1992 FEMALE 1,bypass road, 8466121542 B.A 10000 aasha
312@gmail.com
madurai.
7. JOHN.A 23 7.3.1994 MALE 8,s.s colony, 7946110025 +2 7000 john5
64@gmail.com
madurai.
8. ARUN.E 25 9.9.1992 MALE 67,ellis nagar, 9642305878 M.A 9000 arun
561@gmail.com
madurai.
9. ARJUN.D 24 1.2.1993 MALE 6,simmakkal, 8641235809 B.sc 10000 arju
n948@gmai.com
madurai.
10. DEVI.L 23 6.10.1994 FEMALE 78,narayanapuram, 7562304795 M.sc 12000 devi
4036@gmail.com
madurai.
>>>
Ln: 32 Col: 4
6:31 PM
12/1/2017


Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\User\Downloads\restaurant.py ==========
To order please press 1 else press 2 to get into the login page2
Login:abc
Password:123
Try again
>>>
Ln: 9 Col: 4
6:32 PM
12/1/2017