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Course Code: CSE 310 **Section:** 202-DA

Lab Project Name: Restaurant Management System using Shell Scripting Language

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Lab Project Status

Marks: …… **Signature: .....**

Comments: ..... **Date: .....**

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Introduction

The Project is titled the Restaurant Management System. This project will help us order food in the restaurant and calculate the ordered food bill. Using this system, people can order food from a restaurant online. Besides if this system will be configured in a restaurant through a device waiters or restaurant owners don't need to take orders from the customers by using handwritten pads and pens. People will be able to order their food with the machine where this system will be stored. This system will save time. To implement this system, we used shell scripting language.

Objective

As per the introduction, we have planned the design of the project. We have used shell scripting language to implement this system. Our main motive was to make this system by using some easy concepts of shell scripting language. This system is user-friendly and easy to use. The development of this project is very simple. There are more features which can be added to this system. Generally, in a restaurant, waiters go to the customers, take orders from the customers, note the orders and go to the kitchen to give the note to the chef and the chef prepares the food according to the order. But in this system, there will be a device where people will enter their orders and the chef will receive the order and prepare the food. And the code of this system will be stored in that device. Besides this algorithm will work in online food ordering too by using this algorithm in online software or applications. Mainly this system will save time. The chef will not have to wait for the waiter to come with orders.

Design and Implementation

We have used basic conditional statements and looping concepts in this program. Figure 3.1 shows the sample of the flow chart of this project

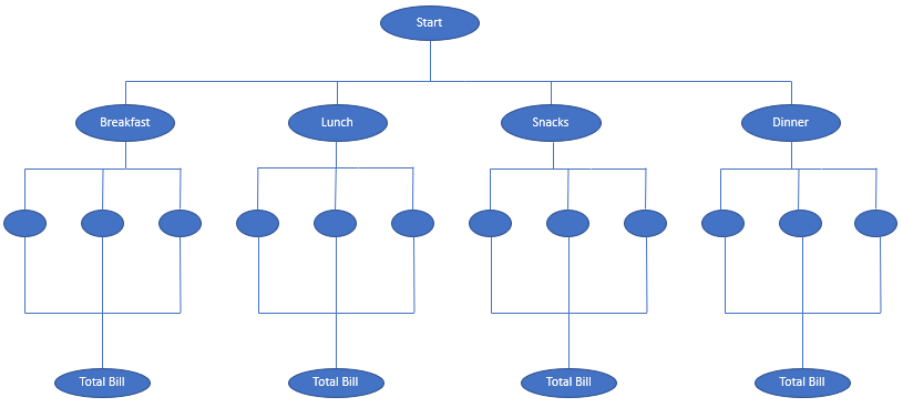

Figure: 3.1

The project has been configured by the conditional statement and looping statement. The algorithm of this project is

Step 1: Start
Step2: Declare x
Step3: if [x == 1] then call breakfast elif [x == 2] then call lunch elif [x==3] then snacks else dinner
Step 4: Declare variables y
Step 5: Sum=0
Step 5: for ((i=0; i<=y; i++)) do declare variable b. Sum=Sum+(b*price) done
Step 6: echo $Sum

This algorithm will be followed for all four menus in the menu box. In the end, calculate the bill and display it. That's how the whole procedure works.

Performance Evolution

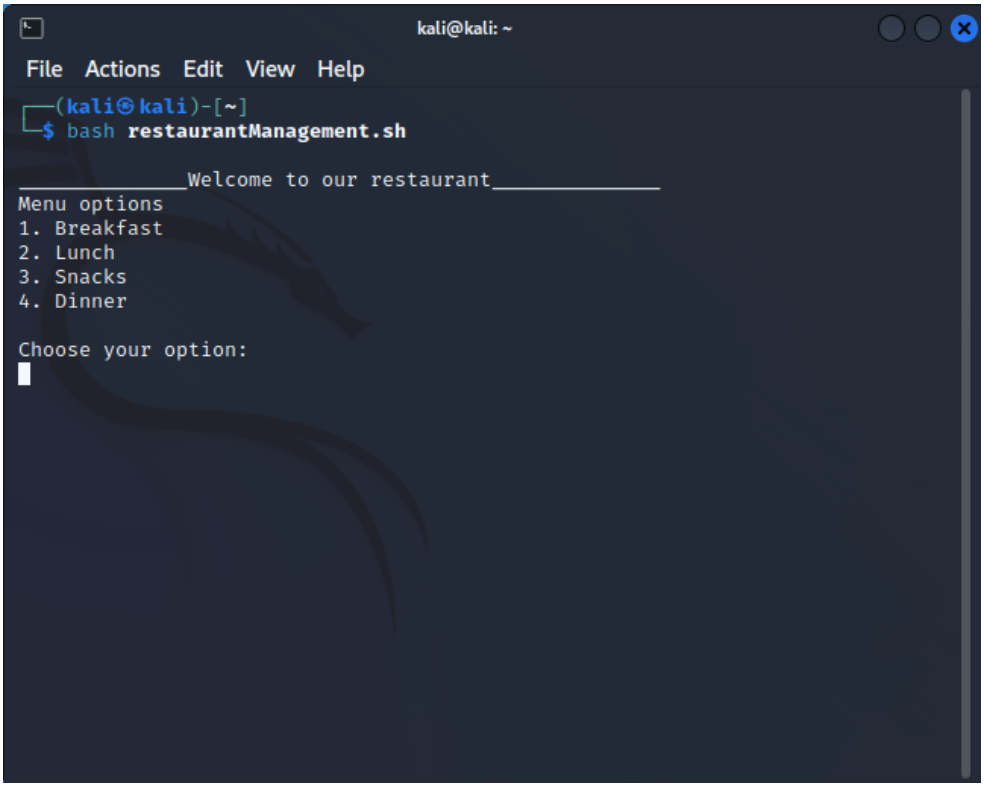

Figure 4.1

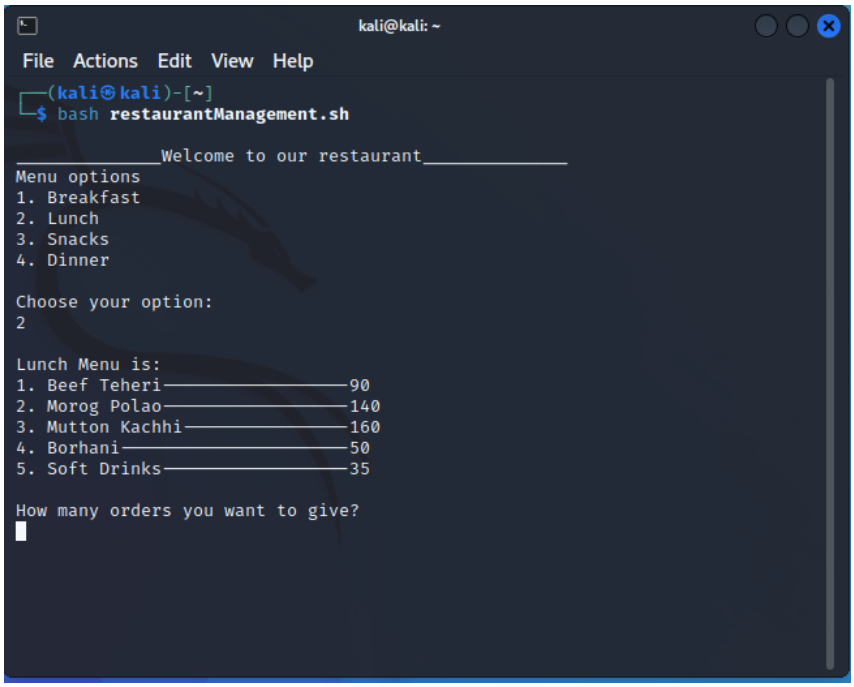

Figure 4.2

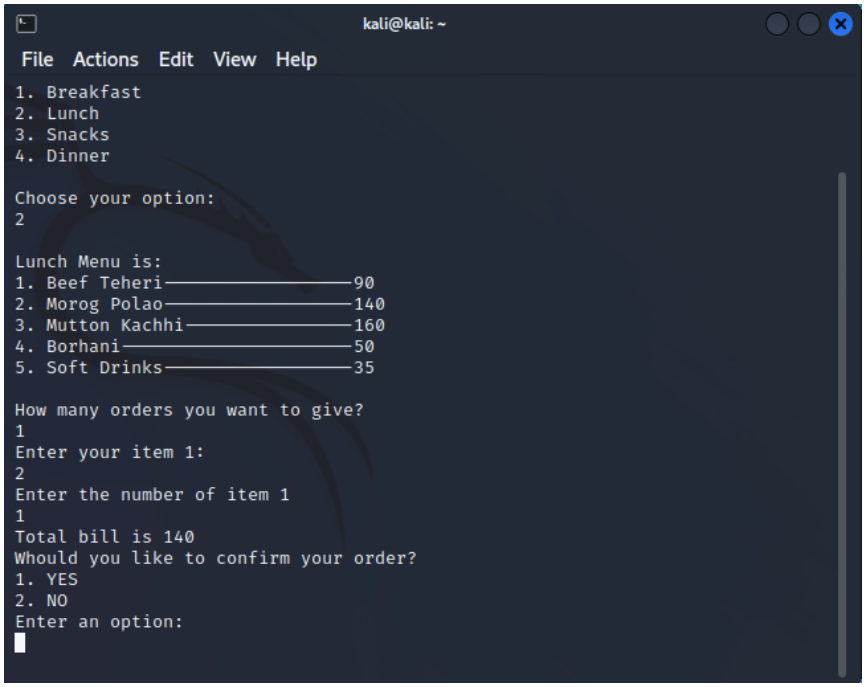

Figure 4.3

Conclusion

The main motive of this project is to reduce the time of the system of a restaurant. As it is mentioned in the introduction part, there are more features which can be added to this project. The main goal of this project is to make this system easier by using the digital platform. The future of this project will see success if it gets proper funding and ideas for development.

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