UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Department of Computer Science
COS132 - Imperative Programming
Practical 1

1 Introduction

Deadline: 21st of March, 20:00

1.1 Objectives and Outcomes

Control structures are the first step towards creating responsive and dynamic programs that are not simply linear in nature. This practical will test your knowledge on such structure.

You are advised to consult the Practical 0 specification for information on aspects of extracting and creating archives as well as compilation if you need it.

1.2 Submission

You will have a maximum of 10 uploads for this practical. Submit your code to Fitchfork before the closing time. Students are **strongly advised** to submit well before the deadline as **no late submissions will be accepted**.

1.3 Plagiarism

Copying will not be tolerated in this course. For a formal definition of plagiarism, the student is referred to the COS132 Study guide. If you have questions regarding this, please ask one of the lecturers, to avoid any misunderstanding.

2 Practical Requirements

2.1 Control Structures

You are required to write a program that allow users to order food from the comfort of their homes. Here are the different menu options you program should have, the customers are given a choice to select one option from each category:

1. main: options (Burger /Pizza /Quit)

- Burger: flavour options (Chicken R35/ Beef R40/ Vegan R45)
- Pizza: size options (Small R25/ Medium R50/ Large R75)

2. beverage (Cola R10/Juice R13/Coffee R16)

The customer must be able to specify the quantity of each product they would like to order. They also have an option to include a beverage or not. They can also exit the program at the main menu without ordering. You are required to compute and print out the total cost of the order.

You are provided with a makefile and a file named order.cpp. Open and study this file to see it. The file is empty besides the skeleton that you are now used to.

Example of this is presented below

```
What would you like to order?
MENU
1) Burger
2) Pizza
3) Quit
Please enter your choice: 1
1) Chicken R35
2) Beef R40
3) Vegan R45
Please enter your choice (flavour): 2
Please enter quantity: 2
Would you like to order a drink? (yes/no): yes
1) Cola R10
2) Juice R13
3) Coffee R16
Please enter your choice: 3
Please enter quantity: 2
You ordered the following items:
- 2 x Beef Burger R40
- 2 x Coffee R16
Total = R112
Your order will be delivered soon, have a lovely day!
```