COS132 Programming **Practical #1** corresponding to the **Syllabus of the week 27.2.-2.3.**2023

Scenario:
For her birthday, Lindiwe has received a 100,- Rand Pizza voucher which she wants to redeem at *Antonio's Pizzeria Italiana.*

REQUIREMENTS SPECIFICATION

Pre-Conditions:
- constant: base pizza without additional toppings: 40,- Rand.
- constant: additional_olives: 15,50 Rand.
- constant: additional_onions: 11,- Rand.
- constant: additional_cheese: 12,30 Rand.
- constant: additional_salami: 22,- Rand.
- constant: additional_shrimps: 25,40 Rand.
- variable: budget: 100,- Rand.
- variable: invoice: 0,- Rand.

ALGORITHM:
→ See the ***Nassi-Shneiderman Diagram*** on the right-hand-side of this specification sheet →

Post-Conditions:
After the algorithm has reached its *termination*, all of the following properties must be guaranteed:
- budget ≥ **0,-**
- invoice ≥ **40,-**
- invoice+budget=**100,-**
- invoice *correctly reflects* the *selected* Pizza ingredients (as in the "run" of the algorithm).

YOUR TO-DO-TASKS:
- *Implement* the given Requirements Specification *correctly* with a C++ program.
- *Test* your C++ carefully with https://www.onlinegdb.com/online_c++_compiler.
- *Ask a Tutor for help* in case that you get stuck with the problem.
- *Convince yourself that everything is OK before you submit* your work.
- Submit your thoroughly tested C++ program to the ClickUp submission website.

Do not miss the submission deadline!
Belated submissions will be rejected.
NO deadline-extention will be granted.