



### Practical Assignment P2022A-06

Due: 01 April 2022, 13:50

Competence Checklist (Your Practical Should Demonstrate the Following)

# Subroutines	#UJGrid Control
# Functions	#Dynamic Arrays

### INSTRUCTIONS/WARNINGS

- No complete accompanying design (on paper), no mark
- No upload on Eve, no mark
- Plagiarism, no mark
- All classes must begin with the following comment (completed with relevant information)
- Name this project `S{StudentNumber}_P2022A_06`

```
*****
' Surname, Initials:
' Student Number:
' Practical: P2022A-06
' Class name: (this is the name of the form you are working on)
' *****
```

### ANNOUNCEMENT

- Your semester test will be written next week Wednesday:
  - Time: 13:50 – 14:35
  - Date: 30<sup>th</sup> of March 2022
  - Venue: D3 Lab 401 and D3 Lab 402
- Please get to the venue at least 15min before the test start time.

### PROBLEM

The university has a vaccine drive for students and staff members that are not fully vaccinated, you can find more information on the vaccine drive from:

<https://www.uj.ac.za/covid-19/>

They have approached you to help them keep track of the people who use the service.

Your Program should:

- Allow the user to specify the number of days when vaccination will be monitored.

- Store and display the number of people who vaccinate on each of the monitored days
- The user must be able to add additional people by specifying which day and the number of additional people who vaccinated on that day.
- The total number of people who vaccinated over that period should be calculated and displayed in the grid.
- The average number of people should also be calculated and displayed in the grid.
- After each addition to a specific day, the total and average values should be recalculated to represent the new numbers.

## MARKSHEET

Design (on paper)	5
User Interface	5
Input of information	5
For Next Loops	10
Use of a Dynamic Array	5
Use of Subroutines	5
Use of Functions	5
Display using UjGrid	5
Modularity	5
Programming Style (use of comments, readability of code)	10
Correct Execution	40
Total	100