

**TIE2030**

**PROGRAMMING METHODOLOGY WITH PYTHON**

**Take-Home Assignment** **(**40 marks**)**

**Name:**

**Matriculation Number:**

**Release Date: 12 November 2021**

**Deadline without Penalty: 16 November 2021, 11pm**

**Deadline with 25% Penalty: 17 November 2021, 11pm**

**What is that you need to add into this report for submission? - YOUR OUTPUT:**

* Signed Declaration form (See the next page).
* The screenshot(s) of **your** **working Python code**.
* The screenshot(s) of **your results** that you wrote to your output file **DNA\_analysis\_results.txt**.
* The **chart** as required in Question 7. Make sure it is visible, readable and clear.
* If you made any **assumptions**, state clearly in this report.

Please submit this report only in PDF format. Follow the submission instructions in the question paper.

# Take Home Assignment Declaration Form

**Please read sections A, B and C below. Sign and submit this declaration form together with your answers.**

1. **Academic, Professional and Personal Integrity**
   1. *The University is committed to nurturing an environment conducive for the exchange of ideas, advancement of knowledge and intellectual development. Academic honesty and integrity are essential conditions for the pursuit and acquisition of knowledge, and the University expects each student to maintain and uphold the highest standards of integrity and academic honesty at all times.*
   2. *The University takes a strict view of cheating in any form, deceptive fabrication, plagiarism and violation of intellectual property and copyright laws. Any student who is found to have engaged in such misconduct will be subject to disciplinary action by the University.*
   3. *It is important to note that all students share the responsibility of protecting the academic standards and reputation of the University. This responsibility can extend beyond each student' s own conduct, and can include reporting incidents of suspected academic dishonesty through the appropriate channels. Students who have reasonable grounds to suspect academic dishonesty should raise their concerns directly to the relevant Head of Department, Dean of Faculty, Registrar , Vice Provost or Provost.*
2. **I have read and understood the rules of the assessments stated below:**
3. *Students should attempt the assessments on their own. There should be no discussion or communication, via face to face or communication devices, with any other person during the assessment.*
4. *Students should not reproduce any assessment materials, e.g. by photo graph y, videography, screenshots, copying down of questions, etc. Posting on public fo rum s, e.g. social media and websit es, is prohibited.*
5. **I understand that by breaching any of the rules above, I would have committed offences under clause 3(1) of the NUS Statute 6, Discipline with Respect to Students, which is punishable with disciplinary action under clause 10 or clause 11 of the said statute.**
6. *Any student who is alleged to have committed or attempted to commit, or caused or attempted to cause any other person to commit any of the following offences, may be subject to disciplinary proceedings:*
   1. *plagiarism, giving or receiving unauthorized assistance in academic work, or other forms of academic dishonest y.*

**I have read and will abide by the NUS Code of Student Conduct (in particular, (A) Academic, Professional and Personal Integrity), B and C when attempting this assessment.**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Date :**

**Matric. No**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Start your answers from here. Use as much space as needed.**