## COMP 421 – Artificial Intelligence

Assignment 1

Deadline: Feb 23, 2023 (No late submission is allowed)

**Submission Instructions:** 

- 1. The assignment should be prepared and submitted in .docx format. The filename should be in the format of "P1234567-XXX-Assignment1", where P1234567 is the student number, and XXX is the student name.
- 2. A zero mark will be given if you copy someone else's work or you let someone copy your work!
- Identify the characteristics for the task environment of a soccer robot. (18 marks)
  Fully observable or partially observable?
  Deterministic or stochastic?
  Episodic or sequential?
  Static or dynamic?
  Discrete or continuous?
  Single agent or multi-agent?
- 2. Apply canny edge detection on the following image. The edge should be 1 pixel wide and please explain each step and show each step's result(82 marks)

