

## Assignment 1

### CS5100 Foundations of Artificial Intelligence

#### Answer the following

##### Question 1:

##### Agent-based computing:

(a) Explain the following terms **in your own words**, in the context of agent-based computing. (10 Marks)

- i      Reflex agent
- ii     Reflex agent with state
- iii    Goal-based agent
- iv     Utility-based agent

(b) Refer to the following link below:

<https://www.winssolutions.org/jobs-ai-will-replace-challenge-opportunities/>

The research behind this report specifically focused on the types of tasks involved in a variety of occupations, and which of these tasks are at risk of being automated. For the given lists of jobs. Pick any two (2) sectors of your choice, for example Healthcare and Finance or any of the others.

Specify clearly which tasks are being automated or likely to be automated for each of these two sectors and the related job. (10 Marks)

Describe these tasks clearly and then describe the PEAS for the each of the tasks. (15 Marks)

Also specify the task environment and their characteristics in details. (15 Marks)