# Artificial Intelligence Programming

## Instructions
1. **Attempt all the questions. Show all your workings where applicable.**
2. **Work in GROUPS of 2 students (Max). Aim is to encourage discussion and brainstorming.**
3. **Submit a pdf version of your work before 12/02/2024.**
4. **Upload your assignment on the virtual campus. One member can upload on behalf of the group.**

Represent the following facts in the language of propositional logic:        (5 Marks)

   i).    Alison likes cakes or Alison eats cakes

   ii).   Alison likes cakes and Alison eats cakes

   iii).  Alison doesn't eat cakes

   iv).   If Alison likes cakes then Alison eats cakes

   v).    If Alison likes cakes then Alison eats cakes, and vice versa


Represent the following facts in the language of propositional logic:        (10 Marks)


   i).    Alison likes Richard or likes chocolate

   ii).   Alison likes Richard and chocolate

   iii).  If Richard is a friend of Alison then Alison likes Richard

   iv).   Alison eats everything that she likes

   v).    There exists some bird that doesn't fly

   vi).   Every person has something that they love

   vii).  There is some table that doesn't have 4 legs.

   viii). All elephants are grey

   ix).   All Kiwis support either Warriors or Crusaders

   x).    There is something small and slimy on the table

   xi).   There is no asparagus which is tasty.