Department of Computer Science and Engineering

Jahangirnagar University

Laboratory Report

**Course Name:**

Artificial Intelligence Laboratory

**Experiment Names:**

1. Find the length of a list
2. Maximum number of a list
3. Find the sum of number of a list

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Class Roll: 40

Exam Roll: 160034

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**Problem name:**

Find the length of a list

**Code:**

size([],0).

size([\_|T],N):-size(T,N1),N is N1+1.

**Problem name:**

Maximum number of a list

**Code**:

maxlist([X],X).

maxlist([X,Y|T],MAX):-

X>Y,

maxlist([X|T],MAX).

maxlist([X,Y|T],MAX):-

X=<Y,

maxlist([Y|T],MAX).

**Problem name:**

Find the sum of number of a list

**code**:

sumlist([],0).

sumlist([H|T],N):-sumlist(T,N1),N is N1+H.