



ASSIGNMENT 1

SUBMITTED TO: SIR DR MUHAMMAD SHARJEEL



FA21-BSE-143 MUHAMMAD MIKAAL AMJAD
MACHINE LEARNING



The features of bird which can be learned are:

- **Flying**
- **Feathers**
- **Nose type**
- **Perching Feet**
- **Size**

From these features let's take Feathers, Feet and Size as the attributes for identifying a bird.

Feathers has values yes/no

Perching Feet has values yes/no

Size small/medium/large

Bird yes/no

Instance Space:

Size of instance space= $|X|=2 \times 2 \times 3=12$

X	Feathers	Perching Feet	Size	Bird
X1	yes	yes	large	-
X2	yes	yes	medium	-
X3	yes	yes	small	-
X4	yes	no	large	-
X5	yes	no	medium	-
X6	yes	no	small	-

