

# ASSIGNMENT NO - 1

## ( FUZZY LOGIC )

IMPLEMENTATION USING PYTHON

Dept of C.Sc -S.K.B.U.

### LIBRARIES: -

```
pip install scikit-fuzzy
pip install networkx
pip install numpy
pip install scipy
pip install matplotlib
```



Input  
(speed)

Fuzzy system  
( fuzzy values)

Is the bike  
running fast ?

-->Extremely fast	$\mu_{(ef)}(65\text{km/h}) = 0$	$\mu_{(ef)}(12\text{km/h}) = 0$
-->Very fast	$\mu_{(vf)}(65\text{km/h}) = 0.5$	$\mu_{(vf)}(12\text{km/h}) = 0$
-->Fast	$\mu_{(f)}(65\text{km/h}) = 0.5$	$\mu_{(f)}(12\text{km/h}) = 0$
-->Slow	$\mu_{(s)}(65\text{km/h}) = 0$	$\mu_{(s)}(12\text{km/h}) = 0.2$
-->Extremely slow	$\mu_{(es)}(65\text{km/h}) = 0$	$\mu_{(es)}(12\text{km/h}) = 0.8$

