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## Experiment-6

### Uncertain methods for application (fuzzy logic)

Aim : To implement fuzzy logic

- Algorithm :
- 1) Define linguistic variables and terms
  - 2) Construct membership function for them
  - 3) Construct knowledge base of rules
  - 4) Convert crisp data into fuzzy datasets using membership functions.
  - 5) Evaluate rules in the rule base
  - 6) Combine results from each rule
  - 7) Convert output data into non-fuzzy values

Result : Fuzzy logic has been successfully implemented

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#### **Code**

```
from fuzzywuzzy import process
str2Match = "apple inc"
strOptions = ["Apple Inc.", "zsdfwd", "apple incorporated", "iphone", "android"]
Ratios = process.extract(str2Match, strOptions)
print(Ratios)
```

#### **Output**

```
[('Apple Inc.', 100), ('apple incorporated', 90), ('iphone', 40), ('android', 25), ('zsdfwd', 0)]
```