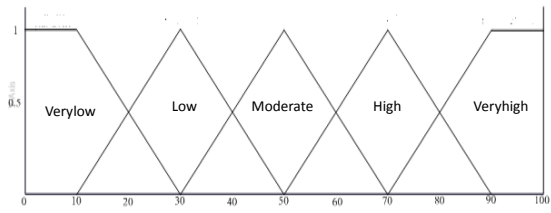
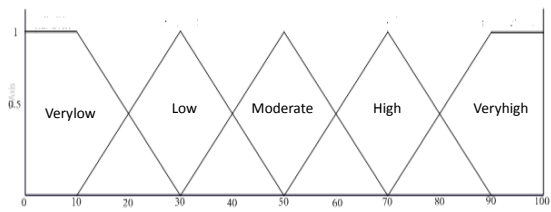


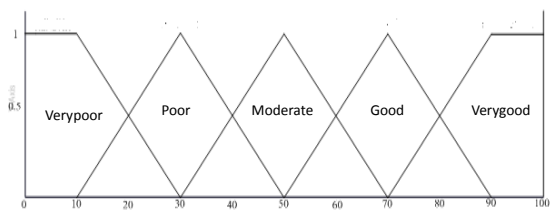
Quantity Product Rating



Quantity and Delivery Time Rating



Supplier Rating



Rules

If QPR Verylow	And	QDTR Verylow	Then	Supplier_Rating	Verypoor
If QPR Verylow	And	QDTR Low	Then	Supplier_Rating	Verypoor
If QPR Verylow	And	QDTR Moderate	Then	Supplier_Rating	Verypoor
If QPR Verylow	And	QDTR High	Then	Supplier_Rating	Poor
If QPR Verylow	And	QDTR Veryhigh	Then	Supplier_Rating	Poor
If QPR Low	And	QDTR Verylow	Then	Supplier_Rating	Verypoor
If QPR Low	And	QDTR Low	Then	Supplier_Rating	Verypoor
If QPR Low	And	QDTR Moderate	Then	Supplier_Rating	Poor
If QPR Low	And	QDTR High	Then	Supplier_Rating	Poor
If QPR Low	And	QDTR Veryhigh	Then	Supplier_Rating	Moderate
If QPR Moderate	And	QDTR Verylow	Then	Supplier_Rating	Verypoor

▲

Rules (continued)

If QPR Moderate	And	QDTR Low	Then	Supplier_Rating	Poor
If QPR Moderate	And	QDTR Moderate	Then	Supplier_Rating	Moderate
If QPR Moderate	And	QDTR High	Then	Supplier_Rating	Moderate
If QPR Moderate	And	QDTR Veryhigh	Then	Supplier_Rating	Moderate
If QPR High	And	QDTR Verylow	Then	Supplier_Rating	Poor
If QPR High	And	QDTR Low	Then	Supplier_Rating	Moderate
If QPR High	And	QDTR Moderate	Then	Supplier_Rating	Good
If QPR High	And	QDTR High	Then	Supplier_Rating	Verygood
If QPR High	And	QDTR Veryhigh	Then	Supplier_Rating	Verygood
If QPR Veryhigh	And	QDTR Verylow	Then	Supplier_Rating	Poor
If QPR Veryhigh	And	QDTR Low	Then	Supplier_Rating	Moderate
If QPR Veryhigh	And	QDTR Moderate	Then	Supplier_Rating	Good
If QPR Veryhigh	And	QDTR High	Then	Supplier_Rating	Verygood
If QPR Veryhigh	And	QDTR Veryhigh	Then	Supplier_Rating	Verygood

▲

Source Code

```
function sr=sup_1(a,b)
ikk=newfis('Supplier');

ikk=addvar(ikk,'input','QPR',[0 100]);
ikk=addmf(ikk,'input',1,'Verylow','trapmf',[0 0 10 30]);
ikk=addmf(ikk,'input',1,'Low','trimf',[10 30 50]);
ikk=addmf(ikk,'input',1,'Moderate','trimf',[30 50 70]);
ikk=addmf(ikk,'input',1,'High','trimf',[50 70 90]);
ikk=addmf(ikk,'input',1,'Veryhigh','trapmf',[70 90 100 100]);
```

▲

The Code (continue)

```

ikk=addvar(ikk,'input','QTDR',[0 100]);
ikk=addmf(ikk,'input',2,'Verylow','trapmf',[0 0 10 30]);
ikk=addmf(ikk,'input',2,'Low','trimf',[10 30 50]);
ikk=addmf(ikk,'input',2,'Moderate','trimf',[30 50 70]);
ikk=addmf(ikk,'input',2,'High','trimf',[30 50 70]);
ikk=addmf(ikk,'input',2,'Veryhigh','trapmf',[70 90 100 100]);

ikk=addvar(ikk,'output','SR',[0 100]);
ikk=addmf(ikk,'output',1,'Verypoor','trapmf',[0 0 10 30]);
ikk=addmf(ikk,'output',1,'Poor','trimf',[10 30 50]);
ikk=addmf(ikk,'output',1,'Moderate','trimf',[30 50 70]);
ikk=addmf(ikk,'output',1,'Good','trimf',[30 50 70]);
ikk=addmf(ikk,'output',1,'Verygood','trapmf',[70 90 100 100]);
    
```



The Code (continue)

```

therule=[
11111;
12111;
13111;
14211;
15211;
21111;
22111;
23211;
24211;
25311;
31111;
32211;
33311;
34311;
35311;
41211;
42311;
43411;
44511;
45511;
51211;
52311;
53411;
54511;
55511];
    
```



Source Code for Evaluating FIS Model

```

ikk=addrule(ikk,therule);
sr=evalfis([a,b],ikk);
    
```



Example evaluate

QPR = 15
QDTR = 25
SR = ?

Type `sup_1(15,25)`
in Matlab command window, then push enter in your keyboard