

Output Screenshots:

```
>> Assgn5Ques1
```

```
xor =
```

```
struct with fields:
```

```
smat: [4×2 double]
```

```
xor =
```

```
struct with fields:
```

```
smat: [4×2 double]
```

```
tmat: [4×1 double]
```

```
xornet0 =
```

```
struct with fields:
```

```
wih: [0.6294 0.8116]
```

```
hbias: -0.7460
```

```
whout: 0.8268
```

```
obias: 0.2647
```

```
act0 =
```

```
struct with fields:
```

```
stim: [4×2 double]
```

```
hid: [4×1 double]
```

```
out: [4×1 double]
```

```
nf =
```

```
struct with fields:
```

```
wih: [2.9792 2.9669]
```

```
hbias: -0.0655
```

```
whout: 2.1444
```

```
obias: -1.3005
```

```
      w2in: [215732 215005]  
      hbias: -0.0655  
      whout: 2.1444  
      obias: -1.3005
```

```
act10k =
```

```
struct with fields:
```

```
    stim: [4x2 double]  
      hid: [4x1 double]  
      out: [4x1 double]
```

```
ans =
```

```
    0.2025  
    0.6503  
    0.6509  
    0.6968
```

```
ans =
```

```
    0    0  
    0    1  
    1    0  
    1    1
```

```
ans =
```

```
   -0.3566  
    0.0328  
   -0.0582  
    0.3342
```

```
ans =
```

```
    0.4925  
    0.5724  
    0.5539  
    0.6320
```

```
>> Assgn5Ques2
```

```
xor =
```

```
struct with fields:
```

```
smat: [8×3 double]  
tmat: [4×1 double]
```

```
xor =
```

```
struct with fields:
```

```
smat: [8×3 double]  
tmat: [8×1 double]
```

```
xornet0 =
```

```
struct with fields:
```

```
wih: [2×3 double]  
hbias: [-0.2745 -0.4448]  
whout: [0.1614 0.2817]  
obias: -0.7622
```

```
act0 =
```

```
struct with fields:
```

```
stim: [8×3 double]  
hid: [8×2 double]  
out: [8×1 double]
```

```
nf =
```

```
struct with fields:
```

```
wih: [2×3 double]  
hbias: [-0.4379 -0.7303]  
whout: [0.6756 0.7124]  
obias: 1 3328
```

```
act10k =
```

```
struct with fields:
```

```
stim: [8×3 double]  
hid: [8×2 double]  
out: [8×1 double]
```

```
ans =
```

```
0.7187  
0.6541  
0.6795  
0.7365  
0.6763  
0.7160  
0.6964  
0.7059
```

```
ans =
```

```
0      0      0  
1      1      1  
0      0      1  
0      1      0  
0      1      1  
1      0      0  
1      0      1  
1      1      0
```

```
ans =
```

```
-0.1364    -0.2188  
-0.2951    -0.3531  
-0.1064    -0.5094  
-0.5383     0.2259  
-0.5163    -0.1092  
 0.1291    -0.4476  
 0.1590    -0.6758  
-0.3227    -0.0294
```

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f

```
>> Assgn5Ques3
```

```
xor =
```

```
  struct with fields:
```

```
    smat: [16×4 double]  
    tmat: [8×1 double]
```

```
xor =
```

```
  struct with fields:
```

```
    smat: [16×4 double]  
    tmat: [16×1 double]
```

```
xornet0 =
```

```
  struct with fields:
```

```
    wih: [2×4 double]  
    hbias: [0.9465 -0.1697]  
    whout: [-0.3784 0.2080]  
    obias: -0.7305
```

```
act0 =
```

```
  struct with fields:
```

```
    stim: [16×4 double]  
    hid: [16×2 double]  
    out: [16×1 double]
```

```
nf =
```

```
  struct with fields:
```

```
    wih: [2×4 double]  
    hbias: [1.0874 -0.6739]  
    whout: [1.5048 3.1446]  
    obias: -0.0249
```

struct with fields:

stim: [16×4 double]
hid: [16×2 double]
out: [16×1 double]

ans =

0.4256
0.8970
0.9047
0.9690
0.9500
0.9377
0.9442
0.9118
0.8918
0.9139
0.9519
0.9353
0.9022
0.9306
0.8958
0.9428

ans =

0	0	0	0
1	1	1	1
0	0	1	1
1	1	0	0
0	1	0	1
1	0	1	0
1	1	1	0
0	1	1	1
0	0	0	1
1	0	0	0
0	1	1	0
1	0	0	1
0	0	1	0
0	1	0	0
1	0	1	1
1	1	0	1

ans =

0.4408	-0.0847
-0.1841	0.6073
-0.3983	0.5934
0.6098	-0.0630
0.2644	0.4026
0.0163	0.1906
0.2675	0.4026
-0.1623	0.7243
0.0129	0.1907
0.4226	-0.2884
0.2882	0.5640
-0.0095	-0.0189
0.0387	0.3842
0.6238	0.1478
-0.4170	0.4389
0.2434	0.2116

ans =

0.2860
0.3695
0.3879
0.2740
0.3215
0.3325
0.3213
0.3732
0.3328
0.2788
0.3269
0.3250
0.3396
0.2817
0.3819
0.3146

kolor =

0	0	1
0	0	1
1	0	0
1	0	0

0.0387	0.3842
0.6238	0.1478
-0.4170	0.4389
0.2434	0.2116

ans =

0.2860
0.3695
0.3879
0.2740
0.3215
0.3325
0.3213
0.3732
0.3328
0.2788
0.3269
0.3250
0.3396
0.2817
0.3819
0.3146

kolor =

0	0	1
0	0	1
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0

 >>

