Q4) Result = 1.7570435 6.25258238 1-9612(17) [[6.74131162 4.20709993 -4.23907523 [6.12503037 4.0965864] [-2.55467518 -4.41435184 -4.27715344 2.22083898] [[12·34049255] [-6.46072936] L-6.553589037 [-6.40755834]7 [[0-00632205] [0.99535632] [0-991426] [0-00725331]] Neuron 1: = Sigmoid (4 * W0,1,0 + 22 * W1,1,0 + 23 * W2,1,0) -(21 *Wo11,0+ 12 * W1,1,0+23 *W2,1,0)

Neuronz:

Neuron 3:

= -(71*1.755+0435+712*4.2070993+73*-4.777.)

Newson4:

= signoid (x1 *Wo11,3 + 72 *W1,1,3 + 73 * W2,1,3)

- (x, *wo, 1,3 + x,2 * w, 1,3 + x,2 * w, 2,11,3)

-(71 * 6.25258238 + 712* -4.23907523 + 713*2.208)

Output:

= signoid (neuron $2 * W_{1,2,0} + neuron <math>2 * W_{1,2,0} + neuron_{2} * W_{1,2,0} + neuron_{4} * W_{3,2,0}$)

1+e- (neuron_*12.34049255 + neuron_* - 6.46071936 + neuron_3 * -6.55358903 + neuron_4 * -6.4075586

```
- (1+e(71*6-74131162+72*6.12503037+713*-2.55467518)
                       *12.34049255
         1+e-(71;*1.96121171+72*4·09658641+713*-4·41435)
                         * -6.460+2936
           1
-(d;*1.75570435+72*4.207-0993+2;*-427
1+e
*-6.55358903
       1+e-(n(*6.25258238 +22*-4.23907523+23*2.2118)

* -6.40755834) -> (3)
```

0,46

i) Substituting
$$N_2 = 0$$
, $N_2 = 0$, $N_3 = 1$
in the above equation ①

2) substituting
$$x_1 = 0, x_2 = 1, x_3 = 1$$

in the above equation 3

3) substituting
$$\chi_1=1$$
, $\chi_2=0$, $\chi_3=1$ in the

$$\frac{1}{1+e^{-(4.186)}} + \frac{1}{1+e^{(2.453)}} + \frac{1}{1+e^{(2.453)}}$$

$$+\frac{1}{1+e^{(2.52144909}} *-6.55358903 +$$

$$= 0.99142600372$$

=
$$0$$
 (1) $x_1 = 1$, $x_2 = 1$, $x_3 = 1$ in equation (1)