```
[[-0.09957359 -0.20802612]
 [ 0.26438939  0.03246972]
 [-0.59986275  0.46313052]
 [-0.23720091 -0.17127629]
 [-0.42389293  0.49024218]
 [-0.48919369  0.14803214]
 [-0.37648775 -0.58101451]
 [-0.18532713  0.51532468]
 [-0.12387903  0.2290763 ]
 [ 0.04658008  0.59678742]
 [-0.09696658 -0.39319139]
 [ 0.2222634  -0.4354371 ]
 [-0.3546573   0.51911456]
 [ 0.45374092  0.23618179]
 [-0.56713489 -0.52079979]
 [ 0.20456101  0.30655566]
 [-0.09923424  0.30465143]
 [ 0.07042779  0.50762944]
 [-0.43153567  0.25382971]
 [-0.36227821 -0.45087485]
 [ 0.36089348 -0.57614384]
 [ 0.56191389 -0.56854682]
 [-0.22389099 -0.56603221]
 [ 0.23078714 -0.30454672]
 [ 0.45166698  0.43203354]
 [ 0.473528    0.04659728]
 [-0.49794695  0.06338637]
 [-0.55313426  0.41043707]
 [-0.3962035  -0.45099202]
 [ 0.453771   -0.26497959]
 [-0.4819838   0.10291113]
 [-0.09467085  0.5635149 ]
 [ 0.54946744  0.07323626]
 [ 0.03979834 -0.57762325]
 [ 0.23025254  0.36075921]
 [-0.22138124 -0.32043087]
 [ 0.22380111  0.36852623]
 [ 0.40155081 -0.13456723]
 [-0.57805407  0.43625023]
 [ 0.30017318  0.29654597]
 [ 0.58663331  0.06748828]
```

```
[ 0.29779879 -0.43625373]
[-0.26346721 -0.52809877]
[ 0.34713519 -0.45438785]
[-0.47612879 -0.54653775]
[-0.06252777 -0.47100705]
[ 0.4903146  -0.32914879]
[-0.24766302  0.25558678]
[-0.25466959  0.07166038]
[-0.44396571 -0.58493282]
[-0.57675965 -0.51363086]
[ 0.21460264  0.5607316 ]
[-0.34604626  0.08172055]
[-0.28134401 -0.35604812]
[-0.01011221 -0.29720911]
[-0.53596495  0.29259102]
[ 0.08894113 -0.36548462]
[-0.42392571  0.09763071]
[ 0.10716664  0.56402399]
[ 0.23971003  0.41619456]
[-0.47719869 -0.31218269]
[-0.10313281 -0.00747634]
[ 0.23328019  0.14394686]
[-0.10298488  0.39477708]
[-0.54005585 -0.41185033]
[ 0.04307569 -0.57770856]
[ 0.19655357 -0.51597343]
[ 0.01786693 -0.01638587]
[ 0.53351371  0.12759535]
[ 0.10386605  0.08262172]
[ 0.4840823  -0.21916511]
[-0.43503036  0.58633939]
[-0.43286838  0.09569426]
[ 0.36886955 -0.14383059]
[-0.1227878   0.06113786]
[-0.40157496  0.29440132]
[ 0.5130103   0.20307947]
[-0.18268097 -0.28209653]
[ 0.30097452 -0.5203982 ]
[ 0.27119758 -0.15589896]
[ 0.45996731  0.15566101]
[ 0.14840665 -0.34779119]
```

```
 [ 0.30113092   0.30330666]
 [-0.18132199 -0.52015622]
 [-0.27608653 -0.28762188]
 [ 0.47506346   0.36570548]
 [-0.08629057 -0.36787886]
 [ 0.55780806   0.16735306]
 [ 0.1961298    0.02960437]
 [ 0.14603486   0.50976956]
 [-0.46230483 -0.28404388]
 [ 0.53938711 -0.52084669]
 [-0.06010544   0.28207916]
 [ 0.09406754   0.32661364]
 [-0.11023584   0.48937902]
 [-0.31556762   0.51836648]
 [ 0.48405542 -0.58325811]
 [ 0.08841538 -0.3187655 ]
 [-0.59655561   0.14013403]
 [ 0.1405739    0.53881958]]
(100, 2)
[[-0.30759971]
 [ 0.29685911]
 [-0.13673223]
 [-0.4084772 ]
 [ 0.06634925]
 [-0.34116155]
 [-0.95750225]
 [ 0.32999755]
 [ 0.10519727]
 [ 0.6433675 ]
 [-0.49015797]
 [-0.2131737 ]
 [ 0.16445726]
 [ 0.68992272]
 [-1.08793468]
 [ 0.51111668]
 [ 0.20541719]
 [ 0.57805724]
 [-0.17770596]
 [-0.81315306]
 [-0.21525036]
 [-0.00663292]
```

```
[-0.7899232 ]
[-0.07375958]
[ 0.88370052]
[ 0.52012527]
[-0.43456057]
[-0.14269719]
[-0.84719552]
[ 0.18879142]
[-0.37907267]
[ 0.46884405]
[ 0.6227037 ]
[-0.53782491]
[ 0.59101174]
[-0.54181211]
[ 0.59232735]
[ 0.26698358]
[-0.14180384]
[ 0.59671915]
[ 0.65412159]
[-0.13845494]
[-0.79156598]
[-0.10725266]
[-1.02266654]
[-0.53353481]
[ 0.16116581]
[ 0.00792375]
[-0.18300922]
[-1.02889854]
[-1.09039051]
[ 0.77533424]
[-0.26432571]
[-0.63739213]
[-0.30732132]
[-0.24337392]
[-0.2765435 ]
[-0.326295  ]
[ 0.67119063]
[ 0.65590459]
[-0.78938137]
[-0.11060916]
[ 0.37722705]
```

```
[ 0.2917922 ]
[-0.95190618]
[-0.53463287]
[-0.31941985]
[ 0.00148107]
[ 0.66110906]
[ 0.18648777]
[ 0.26491719]
[ 0.15130903]
[-0.33717412]
[ 0.22503895]
[-0.06164993]
[-0.10717365]
[ 0.71608977]
[-0.4647775 ]
[-0.21942367]
[ 0.11529862]
[ 0.61562832]
[-0.19938454]
[ 0.60443759]
[-0.70147821]
[-0.56370841]
[ 0.84076894]
[-0.45416943]
[ 0.72516111]
[ 0.22573417]
[ 0.65580443]
[-0.74634871]
[ 0.01854042]
[ 0.22197372]
[ 0.42068117]
[ 0.37914319]
[ 0.20279886]
[-0.09920269]
[-0.23035011]
[-0.45642158]
[ 0.67939348]]
Epoch: 15; Error: 0.08176356916878591;
Epoch: 30; Error: 0.03508489359431019;
Epoch: 45; Error: 0.02015759734051299;
Epoch: 60; Error: 0.016296963932703357;
```

```
Epoch: 75; Error: 0.012860523360876389;
Epoch: 90; Error: 0.011230244285338975;
Epoch: 105; Error: 0.010978109170187933;
Epoch: 120; Error: 0.010552130607601497;
Epoch: 135; Error: 0.010196428011948732;
Epoch: 150; Error: 0.010137276680075082;
Epoch: 165; Error: 0.0098756966334765777;
Epoch: 180; Error: 0.009727045448179894;
Epoch: 195; Error: 0.009640479323345797;
Epoch: 210; Error: 0.009574010065012633;
Epoch: 225; Error: 0.009542940130832817;
Epoch: 240; Error: 0.009539578527991602;
Epoch: 255; Error: 0.009475541320531938;
Epoch: 270; Error: 0.009399622070221169;
Epoch: 285; Error: 0.009366102052130938;
Epoch: 300; Error: 0.009364510113898657;
Epoch: 315; Error: 0.009332631653285767;
Epoch: 330; Error: 0.009305874878276279;
Epoch: 345; Error: 0.009299937803035672;
Epoch: 360; Error: 0.009299487054123921;
Epoch: 375; Error: 0.009291388167150178;
Epoch: 390; Error: 0.009263468887461306;
Epoch: 405; Error: 0.009254450159390033;
Epoch: 420; Error: 0.009254067525449302;
Epoch: 435; Error: 0.009248286907951268;
Epoch: 450; Error: 0.009243981720776827;
Epoch: 465; Error: 0.009242816022119424;
Epoch: 480; Error: 0.009238013729662693;
Epoch: 495; Error: 0.009237141274575934;
The maximum number of train epochs is reached
Number of inputs: 2
Number of outputs: 1
Number of layers, including hidden layer: 2
```