- · A.*B in A mul every ele with corresponding every ele in B.
- A ./B
 - One s (3,1) [[]
 - · $V=\begin{bmatrix}\frac{1}{3}\\\frac{1}{3}\end{bmatrix}$, $V+1=\begin{bmatrix}\frac{3}{4}\\4\end{bmatrix}$
 - · inverse matrix (x-1);
 pin v

```
for loop.
    for 1 = 1:0
       v(i)= 2 1;
     end; (100p from 1 to 10)
· While (up);
1=10
   while ( <= 5
       V(i) = 100;
       i = i + i
    end;
 (2) j=1
           (while tif t break).
     While true.
       V(i) = 999 ;
        「= i ナ ) ラ
        if (== 6,
         break ;
      end;
     end;
```

· if , else., elseif. if vu) == 1 disp ('Yes') elseif ... else end; · tuction. function y= squae This Number (X) y= x2j nd; re: __ (Mm15) · Pud

show current path.

-function $[y_1, y_2] = \text{squae Numard rice}(x)$ $y_1 = x^2 + 2i$ $y_2 = x^3 + 3i$ end;

Vectorization

Vectorization example.

$$h_{\theta}(x) = \sum_{j=\theta}^{n} \theta_{j} x_{j}$$

$$= \theta^{T} x$$

$$\theta = \begin{bmatrix} \partial_{0} \\ \partial_{1} \\ \partial_{1} \end{bmatrix} \qquad \chi = \begin{bmatrix} \chi_{0} \\ \chi_{1} \\ \chi_{2} \end{bmatrix}$$

<u>Unvectorized implementation</u>

<u>Vectorized implementation</u> prediction = theta' * x;

nithout valors