Goal:

Find the suitable coeff , in order to reduce error

Coeff are responsible for predictions , predictions are wrong means error is more

Cost function is more

Good coeff ===== > good line ===== > is passes through actual output

Bad coeff ====== > bad line ====== > the line is deviated from actual output

Find the suitable coeff, in order to minimise the cost function

In mathematics we have a rule for minimize the function

If you want to find a minimum point of a function

First differentiation of function equal to zero

| x | y |
| --- | --- |
|  |  |
|  |  |