```
ln[ \circ ] := f[x_] := x^2 - 6x + 9;
  grad[x_] := 2x - 6;
  xold = 2;
  learningRate = 0.1;
  iterations = 10;
  For [i = 1, i \le iterations, i++,
     xnew = xold - learningRate * grad[xold];
     xold = xnew;
     Print["Iteration ", i, " : x = ", x
  Print["Minimum Value ", f[xnew] , " achieved at x = ", xnew]
  Iteration 1 : x = 2.2 f(x) = 0.64
  Iteration 2 : x = 2.36 f(x) = 0.4096
  Iteration 3 : x = 2.488 f(x) = 0.262144
  Iteration 4 : x = 2.5904 f(x) = 0.167772
  Iteration 5 : x = 2.67232 f(x) = 0.107374
  Iteration 6 : x = 2.73786 f(x) = 0.0687195
  Iteration 7 : x = 2.79028 f(x) = 0.0439805
  Iteration 8 : x = 2.83223 f(x) = 0.0281475
  Iteration 9 : x = 2.86578 f(x) = 0.0180144
  Iteration 10 : x = 2.89263 f(x) = 0.0115292
  Minimum Value 0.0115292 achieved at x = 2.89263
```