```
Returns
  dj dw (scalar): The gradient of the cost w.r.t. the parameters w
 dj db (scalar): The gradient of the cost w.r.t. the parameter b
# Number of training examples
m = x.shape[0]
# You need to return the following variables correctly
dj dw = 0
dj db = 0
### START CODE HERE ###
for i in range(m):
    prediction = w * x[i] + b
    dj db i = prediction-y[i]
    dj dw i = (prediction-y[i])*x[i]
    dj db += dj db i
    dj dw += dj dw i
dj dw /= m
dj db /= m
### END CODE HERE ###
```

▶ Click for hints

return dj_dw, dj_db

Run the cells below to check your implementation of the compute_gradient function with two different initializations of the parameters w,b.

```
In [32]: # Compute and display gradient with w initialized to zeroes
initial_w = 0
initial_b = 0

tmp_dj_dw, tmp_dj_db = compute_gradient(x_train, y_train, initial_w, initial_b)
print('Gradient at initial w, b (zeros):', tmp_dj_dw, tmp_dj_db)

compute gradient test(compute gradient)
```