

In [1]:

```
from sklearn.datasets import make_regression
```

In [2]:

```
x,y,w = make_regression (n_samples = 1000, n_features =1 , coef = True,  
                        bias = 10,noise = 10, random_state = 2529)
```

In [3]:

```
X,y = make_regression (n_samples = 1000, n_features =1 , coef = False,  
                      bias = 100,noise = 10, random_state = 2529)
```

In [4]:

```
x.shape, y.shape
```

Out[4]:

```
((1000, 1), (1000,))
```

In [5]:

```
w
```

Out[5]:

```
array(24.96405085)
```

In [6]:

```
import matplotlib.pyplot as plt
```

In [7]:

```
plt.scatter(X,y, marker = "o", c = y, s = 25, edgecolor = "k");
```

