


## Experiment No:-07

19_Sanket Chandrashekhhar Harvande : 	
Experiment No-07	
PAGE No.	
DATE	/ /
Title :- Implementation of Linear Regression Using Python.	
Theory :-	
<p>Regression analysis is a very widely used statistical tool to establish a relationship model between two variables. One of these variables is called the predictor variable, whose value is gathered through experiments. The other variable is called the response variable, whose value is derived from the predictor variable. In linear regression, these two variables are related through an equation where the exponent of both these variables is 1. Mathematically, a linear relationship represents a straight line when plotted as a graph. A non-linear relationship, where the exponent of any variable is not equal to 1, creates a curve. The general mathematical equation</p> $y = ax + b$	
<p>Following is the description of parameters used:</p> <ul style="list-style-type: none"><li>• <math>y</math> is the response variable</li><li>• <math>x</math> is the predictor variable</li><li>• <math>a</math> &amp; <math>b</math> are constants which are called coefficients</li></ul>	
<p><u>Conclusion :-</u></p> <p>Thus, we implemented linear regression using Python.</p>	



Output:-

