**MACHINE LEARNING – WORKSHEET 8 (REGRESSION) ANSWER**

**All the questions in this worksheet have one or more than one correct answers. Choose all the correct options to answer your questions.**

1. A) The mean of the Є is zero
2. A) It covers up the errors introduced because of the variables which are not present in the given predictors set X but they are influencing the response variable.

B) It also covers up the measurement errors in the response variable.

1. A) The distribution of random error will be Gaussian.

D) The random will be independent of X.

1. A) To predict the sales of a product based on the marketing budget on different media like TV, Newspaper, Radio, etc.

C) To predict the stock price of a company based on the previous stocks prices.

1. D) All of the above
2. B) Least Squares Method
3. C) y1 = B\* Sin(x) + C, where B and C are parameters
4. A) Linear function of AGE
5. C) -1 < P < 0
6. C) Spearman correlation coefficient = 1