**MASTER Repository for Interview Based Assessment**

**→** [**rushabhhalmare09/Placement-Assignment\_RushabhHalmare (github.com)**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare)

# Python

**MASTER Repo for Python**

**→** [**Placement-Assignment\_RushabhHalmare/Python at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare (github.com)**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Python)

**Q. 1] Answer →** [Placement-Assignment\_RushabhHalmare/1. Question\_1.py at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/1%20.%20Question1/1.%20Question_1.py)

**Q. 2] Answer →** [Placement-Assignment\_RushabhHalmare/2. Question\_2.py at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/2.%20Question/2.%20Question_2.py)

**Q. 3] Answer →** [Placement-Assignment\_RushabhHalmare/3. Question\_3.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/3.%20Question3/3.%20Question_3.ipynb)

**Q. 4] Answer →** [Placement-Assignment\_RushabhHalmare/4. Question\_4.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/4.%20Question4/4.%20Question_4.ipynb)

**Q. 5] Answer →** [Placement-Assignment\_RushabhHalmare/5. Question\_5.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/5.%20Question5/5.%20Question_5.ipynb)

**Q. 6] Answer →** [Placement-Assignment\_RushabhHalmare/6. Question\_6.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/6.%20Question6/6.%20Question_6.ipynb)

**Q. 7] Answer →** [Placement-Assignment\_RushabhHalmare/Python/7. Question7 at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Python/7.%20Question7)

**Q. 8] Answer →** [Placement-Assignment\_RushabhHalmare/8. Question\_8.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/8.%20Question8/8.%20Question_8.ipynb)

**Q. 9] Answer →** [Placement-Assignment\_RushabhHalmare/9. Question\_9.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/9.%20Question9/9.%20Question_9.ipynb)

**Q. 10] Answer →** [Placement-Assignment\_RushabhHalmare/10. Question\_10.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/10.%20Question10/10.%20Question_10.ipynb)

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# Statistics

**MASTER Repo for Statistics**

**→** [**Placement-Assignment\_RushabhHalmare/Statistics at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare (github.com)**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Statistics)

**Q. 1] Answer:-**

The correlation coefficient is a measure of the strength and direction of the linear relationship between two variables. In this case, **the correlation coefficient of 0.7** between SAT scores and college GPA indicates a **positive** and **moderately strong** linear relationship between the two variables. This means that, in general, students with higher SAT scores tend to have higher college GPAs, and vice versa.

However, it’s important to note that correlation does not imply causation. A correlation coefficient of 0.7 does not mean that a high SAT score **causes** a high college GPA or vice versa. There may be other factors at play that influence both SAT scores and college GPA.

**Q. 2] Answer →** [Placement-Assignment\_RushabhHalmare/1. Question2.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/1.%20Question2/1.%20Question2.ipynb)

**Q. 3] Answer →** [Placement-Assignment\_RushabhHalmare/2. Question3.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/2.%20Question3/2.%20Question3.ipynb)

**Q. 4] Answer →** [Placement-Assignment\_RushabhHalmare/3. Question4.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/3.%20Question4/3.%20Question4.ipynb)

**Q. 5] Answer →** [Placement-Assignment\_RushabhHalmare/4. Question5.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/4.%20Question5/4.%20Question5.ipynb)

**Q. 6] Answer →** [Placement-Assignment\_RushabhHalmare/5. Question6.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/5.%20Question6/5.%20Question6.ipynb)

**Q. 7] Answer →** [Placement-Assignment\_RushabhHalmare/6. Question7.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/6.%20Question7/6.%20Question7.ipynb)

**Q. 8] Answer →** [Placement-Assignment\_RushabhHalmare/7. Question8.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/7.%20Question8/7.%20Question8.ipynb)

**Q. 9] Answer →** [Placement-Assignment\_RushabhHalmare/8. Question9.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/8.%20Question9/8.%20Question9.ipynb)

**Q. 10] Answer →** [Placement-Assignment\_RushabhHalmare/9. Question10.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/9.%20Question10/9.%20Question10.ipynb)

**Q. 11] Answer →** [Placement-Assignment\_RushabhHalmare/10. Question11.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/10.%20Question11/10.%20Question11.ipynb)

**Q. 12] Answer →** [Placement-Assignment\_RushabhHalmare/11. Question12.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Statistics/11.%20Question12/11.%20Question12.ipynb)

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# Machine Learning

**Intermediate**

**MASTER Repo For**

**→** [**Placement-Assignment\_RushabhHalmare/Machine learning/INTERMEDIATE at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Machine%20learning/INTERMEDIATE)

**Q. 1] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q1.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/1.%20Question1/ML_Q1.ipynb)

**Q. 2] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q2.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/2.%20Question2/ML_Q2.ipynb)

**Q. 3] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q3.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/3.%20Question3/ML_Q3.ipynb)

**Q. 4] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q4.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/4.%20Question4/ML_Q4.ipynb)

**Q. 5] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q5.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/5.%20Question5/ML_Q5.ipynb)

**Q. 6] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q6.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/6.%20Question6/ML_Q6.ipynb)

**Q. 7] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q7.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/7.%20Question7/ML_Q7.ipynb)

**Q. 8] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q8.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/8.%20Question8/ML_Q8.ipynb)

**Q. 9] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q\_9.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/9.%20Question9/ML_Q_9.ipynb)

**Q. 10] Answer →** [**Placement-Assignment\_RushabhHalmare/ML\_Q10.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/INTERMEDIATE/10.%20Question10/ML_Q10.ipynb)

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**ADVANCE**

**MASTER Repo For Advance ML**

**→** [Placement-Assignment\_RushabhHalmare/Machine learning/ADVANCE at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Machine%20learning/ADVANCE)

**Q.1] Answer →** [**Placement-Assignment\_RushabhHalmare/ADV\_ML\_Q1.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/ADVANCE/1.%20Question1/ADV_ML_Q1.ipynb)

**Q. 2] Answer →** [Placement-Assignment\_RushabhHalmare/ADV\_ML\_Q2.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/ADVANCE/2.%20Question2/ADV_ML_Q2.ipynb)

**Q. 3] Answer →** [Placement-Assignment\_RushabhHalmare/ADV\_ML\_Q3.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Machine%20learning/ADVANCE/3.%20Question3/ADV_ML_Q3.ipynb)

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# Deep Learning

**MASTER Repo for DL**

**→** [**Placement-Assignment\_RushabhHalmare/Deep Learning at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Deep%20Learning)

**Q. 1] Answer →** [**Placement-Assignment\_RushabhHalmare/DL\_Q1.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Deep%20Learning/1.%20Question1/DL_Q1.ipynb)

**Q. 3] Answer →** [**Placement-Assignment\_RushabhHalmare/3. Question3.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Deep%20Learning/3.%20Question3/3.%20Question3.ipynb)

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# Natural Language Processing

**MASTER Repo for Natural Language Processing**

**→** [**Placement-Assignment\_RushabhHalmare/Natural Language Processing at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/tree/master/Natural%20Language%20Processing)

**Q. 1] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q1.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/1.%20Question1/NLP_Q1.ipynb)

**Q. 2] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q2.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/2.%20Question2/NLP_Q2.ipynb)

**Q. 3] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q3.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/3.%20Question3/NLP_Q3.ipynb)

**Q. 4] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q4.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/4.%20Question4/NLP_Q4.ipynb)

**Q. 5] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q5.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/5.%20Question5/NLP_Q5.ipynb)

**Q. 6] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q6.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/6.%20Question6/NLP_Q6.ipynb)

**Q. 7] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q7.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/7.%20Question7/NLP_Q7.ipynb)

**Q. 8] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q8.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/8.%20Question8/NLP_Q8.ipynb)

**Q. 9] Answer →** [**Placement-Assignment\_RushabhHalmare/NLP\_Q9.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Natural%20Language%20Processing/9.%20Question9/NLP_Q9.ipynb)

**Q. 10] Answer →** [**Placement-Assignment\_RushabhHalmare/10. Question\_10.ipynb at master · rushabhhalmare09/Placement-Assignment\_RushabhHalmare · GitHub**](https://github.com/rushabhhalmare09/Placement-Assignment_RushabhHalmare/blob/master/Python/10.%20Question10/10.%20Question_10.ipynb)