**Algorithms And Problem Solving**

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**Casino Management & Security Solutions**

**BATCH-B13**

KATYAYN SHARMA……. (14503007)

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**CERTIFICATE**

This is to certify that the project entitled “**Disk Scheduling Algorithms**” submitted by:-

**Katyayn Sharma (14503007),** **Lavish Yadav (14503006),**

**Aayush Goel (14503032)**

**and**

**Shruti Sahu (14503011)**

in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Computer Science Engineering is a bonafide record of the work carried out under my guidance end supervision at **Jaypee Institute of Information Technology, Noida.**

**Signature**

**Miss Sakshi Agarwal**

**ACKNOWLEDGEMENT**

In performing our assignment, we had to take help and guidance of some respected people, who deserve our greatest gratitude. The completion of this assignment gives us much pleasure. We would like to show our gratitude to **Mrs. Hema, Jaypee Institute of Information Technology** for giving us a good guideline for assignment throughout numerous consultations. We would like to expand our deepest gratitude to those who have directly or indirectly guided us in this project.

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**OBJECTIVE**

* Accomplished placement of tables in a given area with pillars.
* Accomplished optimizing the number of VIP and Normal Tables from a given number of tables in a given area.
* Accomplished optimizing the number of cameras required to capture all the tables in the area. (CCTV module can survey surrounding 8 cells and the cell it is placed on).
* Accomplished recognizing the number of the Denominations of Poker chips required for a given amount (in Thousand Dollars). (Used Dynamic Programming)
* Accomplished seat allocation and reservation. (A Problem of Bin Packing, Each table seats 4 people, Used Depth First Search Algorithm).