

**Department of Computer Science and Engineering**

**29th Batch**

**Lab Report 4**

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| Course title | : Artificial Intelligence Lab |
| Course Code | : CSE - 414 |

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| **Submitted By** | | **Submitted To** | |
|  |  |  |  |
| Name | : Md. Nahid Hasan | Name | : Md. Mahfujur Rahman |
| ID | : 221311131 | Designation | : Lecturer,  Varendra University,  Rajshahi. |
| Section | : D |  |
| Semester | : 8th |  |
| Batch | : 29th | Name | : D.M. Asadujjaman |
|  |  | Designation | : Lecturer,  Varendra University,  Rajshahi. |
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| Signature | Signature |
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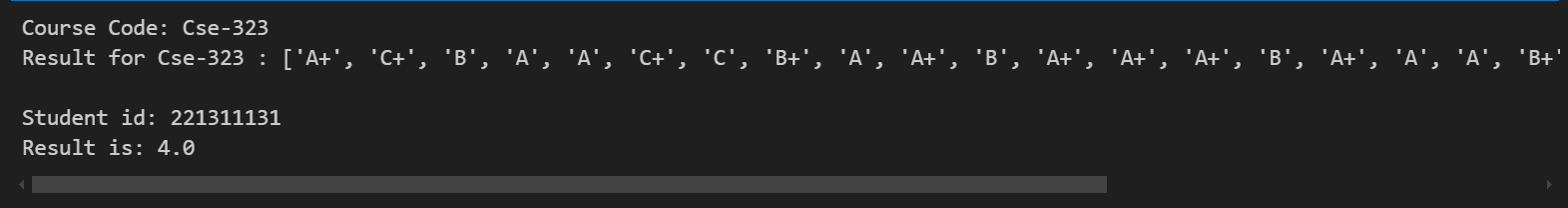
* **Question: Implementing list Comprehension in Python**.
* **Solution(Code):**

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| --- | --- |
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| course\_code =  input("Enter course code: ")  print("Course Code:",course\_code)  result = [Sec\_D[var][course\_code] for var in Sec\_D]  print("Result for: ",result)  print()  id = input("Enter Student ID: ")  print("Student id:",id)  if id in Sec\_D:      result = Sec\_D[id]["CGPA"]      print("Result is:",result)  else:      print("ID not found.") |

* **Input & Output:**

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* **Conclusion**: In this lab, I learned how to use list comprehension to efficiently display specific information. First, I created a dictionary called Sec\_D to store details about the students. Then, using list comprehension, I Sort the data to display the results of students enrolled in the CSE-323 course. Lastly, I was able to show my GPA by looking up my ID in the dictionary. This approach made it easier and faster to work with large sets of student information.