Department of Computer Science & Engineering
Faculty of Engineering and Technology
University of Lucknow

B.TECH CSE-AI 3rd YEAR / 6th SEMESTER
Assignment No. : 02

1. Name of Subject: Design and Analysis of Algorithm

2. Assignment Topic: Greedy Algorithm

3. Subject Code: CS601

4. Unit Covered : Third

5. Date of Issue: 15/03/2024   Max Marks: 15

Q	Question Description	MM
1	Given 10 activities along with their start and finish time as S=(A1, A2, A3, A4, A5, A6, A7, A8, A9, A10) s_i=(1,2,3,4,5,6,7,8,9,10) f_i=(5,3,4,6,7,8,11,10,12,13)	5
2	Find an optimal Huffman code for the following set of frequencies: a:50 b:25 c:15 d:40 e:75	5
3	Consider the knapsack instance n =3 (w_1, w_2, w_3)= (2, 3, 4) and (v_1, v_2, v_3)= (2, 3, 5) and W= 5. Find the optimal solution.	5