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Div: C Batch: C4

Course Name: Design and Analysis of Algorithms Laboratory

Course Code: BCE5412

Assignment 02: Implementing Job Scheduling using Greedy Approach.

Input:

```
def printJobScheduling(arr, t):  
  
    n = len(arr)  
    for i in range(n):  
        for j in range(n - 1 - i):  
            if arr[j][2] < arr[j + 1][2]:  
                arr[j], arr[j + 1] = arr[j + 1], arr[j]  
  
    result = [False] * t  
  
    job = ['-1'] * t  
    for i in range(len(arr)):  
        for j in range(min(t - 1, arr[i][1] - 1), -1, -1):  
  
            if result[j] is False:  
                result[j] = True  
                job[j] = arr[i][0]  
                break  
    print(job)  
  
# Driver's Code  
if __name__ == '__main__':  
    arr = [['Job1', 2, 100],  
           ['Job2', 1, 19],  
           ['Job3', 2, 27],  
           ['Job4', 1, 25],  
           ['Job5', 3, 15]]
```

```
print("The sequence of Jobs that gives the maximum profit==>")  
printJobScheduling(arr, 3)
```

Output:

```
The sequence of Jobs that gives the maximum profit==>  
['Job3', 'Job1', 'Job5']
```

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