

## AI LAB ASSIGNMENT 5 :

# Python3 code for the above job scheduling algo

```
def printJobScheduling(arr, t):  
    # length of array  
    n = len(arr)  
  
    # Sort all jobs according to  
    # decreasing order of profit  
    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]  
  
    # To keep track of free time slots  
    result = [False] * t  
  
    # To store result (Sequence of jobs)  
    job = ['-1'] * t  
  
    # Iterate through all given jobs  
    for i in range(len(arr)):  
  
        # Find a free slot for this job  
        # (Note that we start from the  
        # last possible slot)  
        for j in range(min(t - 1, arr[i][1] - 1), -1, -1):  
  
            # Free slot found  
            if result[j] is False:
```

```

        result[j] = True
        job[j] = arr[i][0]
        break

    # print the sequence
    print(job)

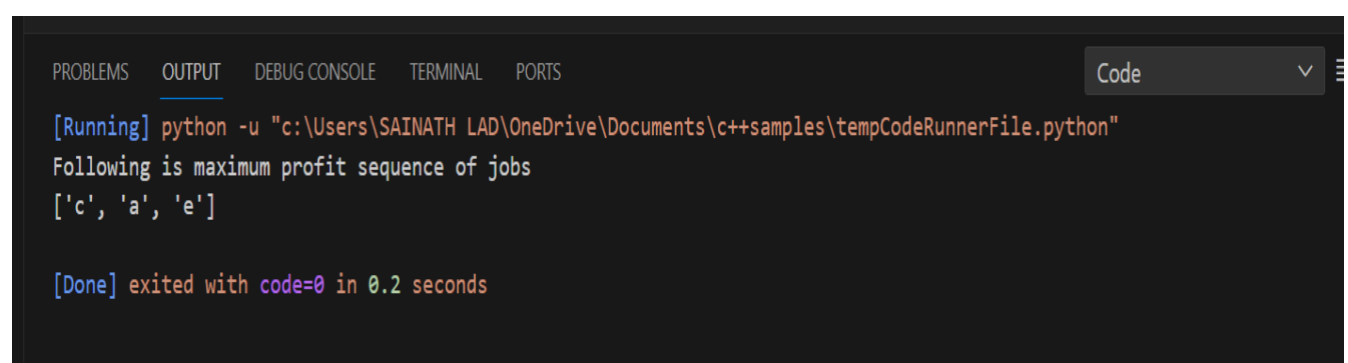
# Driver's Code
if __name__ == '__main__':
    arr = [['a', 2, 100], # Job Array
            ['b', 1, 19],
            ['c', 2, 27],
            ['d', 1, 25],
            ['e', 3, 15]]

    print("Following is maximum profit sequence of jobs")

# Function Call
printJobScheduling(arr, 3)

```

OUTPUT :



```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
[Running] python -u "c:\Users\SAINATH LAD\OneDrive\Documents\c++samples\tempCodeRunnerFile.python"
Following is maximum profit sequence of jobs
['c', 'a', 'e']

[Done] exited with code=0 in 0.2 seconds

```