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CLASS: 1MCA-B

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PYTHON (Lab Exercise-3)

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists files in the 'PYTHON' workspace, including 'LabExercise3.py'. The main editor displays the code for 'LabExercise3.py', which defines a function 'decode_encoded_string' that splits a string by underscores and returns a dictionary. Below the code, the 'TERMINAL' panel shows the command 'python -u "c:\python\LabExercise3.py"' being executed, resulting in the output: {'name': 'Shreya', 'domain_name': 'Job Portal', 'register_number': '2347255'}.

```
File Edit Selection View Go Run Terminal Help
python

EXPLORER
OPEN EDITORS
  q1.py
  q2.py
  2347255_labexercise2.py
  LabExercise3.py
  LabExercise4.py
PYTHON
  2347255_Lab1.pdf
  2347255_Labex1.docx
  2347255_LABEXERCISE2.docx
  2347255_labexercise2.ini
  2347255_labexercise2.py
  2347255_labexercise2.py.ini
  LabExercise3.py
  LabExercise4.py
  LabExercise4.py.txt
  q1.py
  q2.py
  tempCodeRunnerFile.py

LabExercise3.py
1 def decode_encoded_string(stringsplit):
2     parts = stringsplit.split('_')
3
4     # Check if the split parts have the required number of elements
5     if len(parts) != 3:
6         raise ValueError("Invalid encoded string format")
7
8     # Create a dictionary with keys and values
9     decoded_dict = {
10         "name": parts[0],
11         "domain_name": parts[1],
12         "register_number": parts[2]
13     }
14
15     return decoded_dict
16
17 # Example usage:
18 encoded_string = "Shreya Job Portal 2347255"
19 decoded_dict = decode_encoded_string(encoded_string)
20 print(decoded_dict)
21

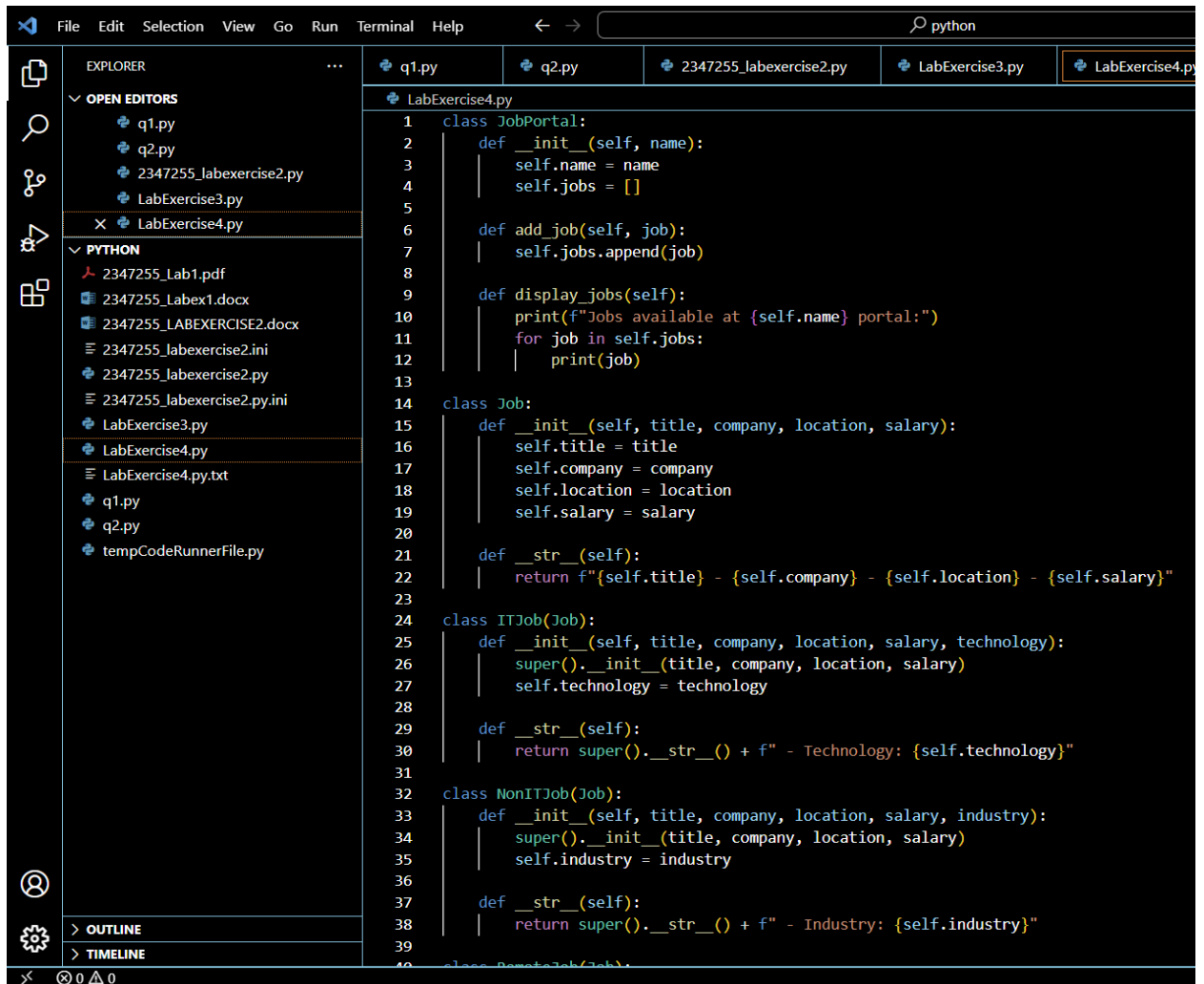
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\python> python -u "c:\python\LabExercise3.py"
{'name': 'Shreya', 'domain_name': 'Job Portal', 'register_number': '2347255'}
PS C:\python>
```

NAME: SHREYA GOEL

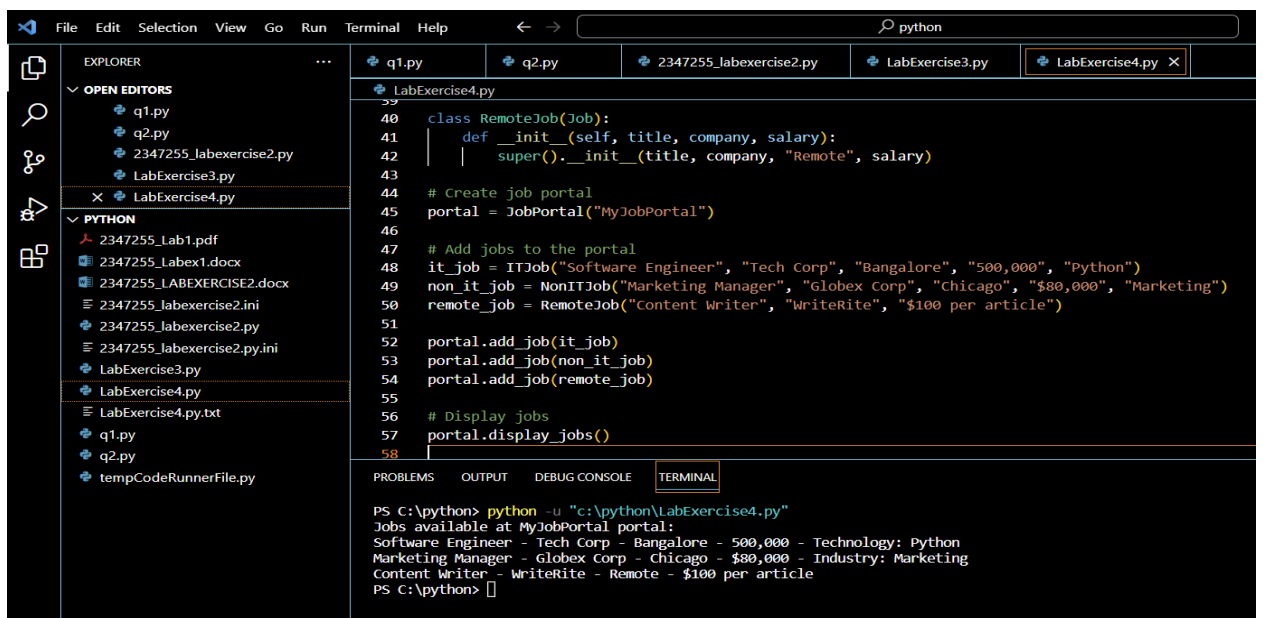
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PYTHON (Lab Exercise-4)



```
1 class JobPortal:
2     def __init__(self, name):
3         self.name = name
4         self.jobs = []
5
6     def add_job(self, job):
7         self.jobs.append(job)
8
9     def display_jobs(self):
10        print(f"Jobs available at {self.name} portal:")
11        for job in self.jobs:
12            print(job)
13
14 class Job:
15     def __init__(self, title, company, location, salary):
16         self.title = title
17         self.company = company
18         self.location = location
19         self.salary = salary
20
21     def __str__(self):
22         return f"{self.title} - {self.company} - {self.location} - {self.salary}"
23
24 class ITJob(Job):
25     def __init__(self, title, company, location, salary, technology):
26         super().__init__(title, company, location, salary)
27         self.technology = technology
28
29     def __str__(self):
30         return super().__str__() + f" - Technology: {self.technology}"
31
32 class NonITJob(Job):
33     def __init__(self, title, company, location, salary, industry):
34         super().__init__(title, company, location, salary)
35         self.industry = industry
36
37     def __str__(self):
38         return super().__str__() + f" - Industry: {self.industry}"
39
40 class RemoteJob(Job):
```



```
40 class RemoteJob(Job):
41     def __init__(self, title, company, salary):
42         super().__init__(title, company, "Remote", salary)
43
44 # Create job portal
45 portal = JobPortal("MyJobPortal")
46
47 # Add jobs to the portal
48 it_job = ITJob("Software Engineer", "Tech Corp", "Bangalore", "500,000", "Python")
49 non_it_job = NonITJob("Marketing Manager", "Globex Corp", "Chicago", "$80,000", "Marketing")
50 remote_job = RemoteJob("Content Writer", "WriteRite", "$100 per article")
51
52 portal.add_job(it_job)
53 portal.add_job(non_it_job)
54 portal.add_job(remote_job)
55
56 # Display jobs
57 portal.display_jobs()
58
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\python> python -u "c:\python\LabExercise4.py"
Jobs available at MyJobPortal portal:
Software Engineer - Tech Corp - Bangalore - 500,000 - Technology: Python
Marketing Manager - Globex Corp - Chicago - $80,000 - Industry: Marketing
Content Writer - WriteRite - Remote - $100 per article
PS C:\python>
```