



**Bahria University, Islamabad**

**Department of Software Engineering**

**Artificial Intelligence Lab**

**(Fall-2021)**

**Teacher: Engr. M Waleed Khan**

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**Enrollment : 01-131182-021**

**Lab Journal: 11**

Task No:	Task Wise Marks		Documentation Marks		Total Marks (20)
	Assigned	Obtained	Assigned	Obtained	
1	15		5		

**Comments:**

**Signature**

## **Lab No: 11**

### **Lab 11: Implementing File Handling & Regular Expressions**

#### **INTRODUCTION:**

Python is an interpreted, high-level, and general-purpose programming language. Python's design philosophy emphasizes code readability with its notable use of significant indentation. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

#### **Objective:**

Implementing file handling in python

**Tools Used:** Pycharm

## Task 1

```
file = open("Lab11.txt", "r")  
print("\nFile Data:\n", file.read())
```

### Output:

```
"F:\Work\Python\Open Ended\venv\Scripts\python.exe" "  
  
File Data:  
My Name is Iqar Ijaz  
  
Process finished with exit code 0
```

## Task 2

```
file = open("file.txt", "w")  
file.write("The new file is created with this  
content. \n")  
file = open("file.txt", "r")  
print("\nFile Data:\n",file.read())
```

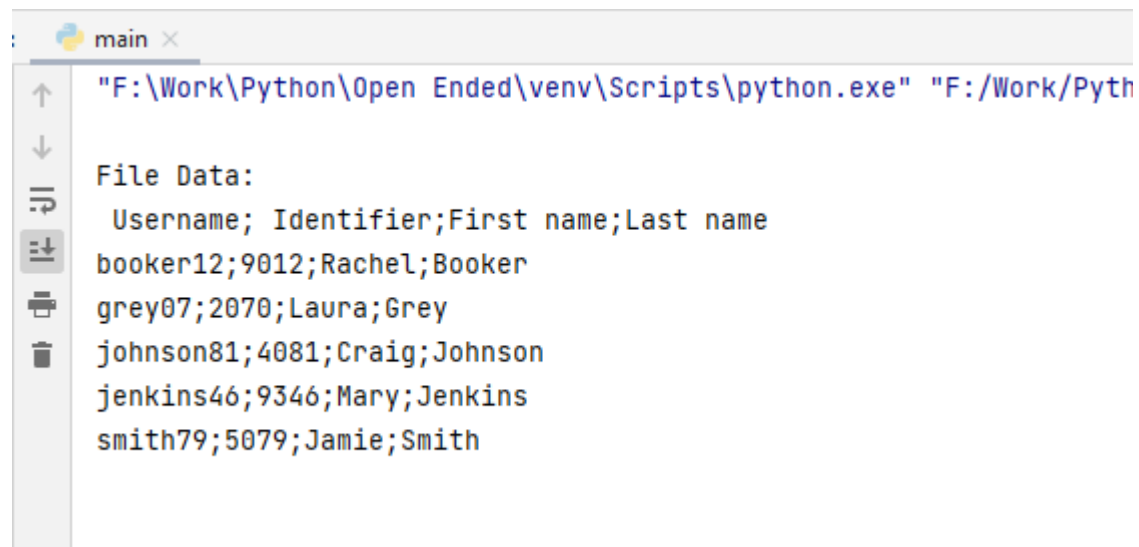
### Output:

```
main ×  
"F:\Work\Python\Open Ended\venv\Scripts\python.exe" "F:/  
  
File Data:  
The new file is created with this content.  
  
Process finished with exit code 0
```

### Task 3

```
file = open("username.csv", "r")  
print("\nFile Data:\n", file.read())
```

**Output:**



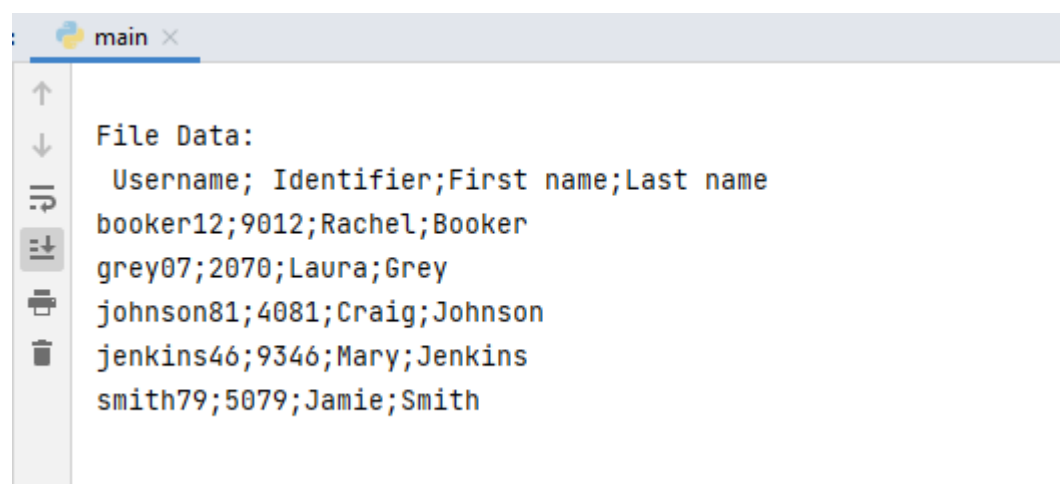
The screenshot shows a Python terminal window with a single tab labeled 'main'. The command prompt is 'F:\Work\Python\Open Ended\venv\Scripts\python.exe'. The output of the program is as follows:

```
File Data:  
Username; Identifier;First name;Last name  
booker12;9012;Rachel;Booker  
grey07;2070;Laura;Grey  
johnson81;4081;Craig;Johnson  
jenkins46;9346;Mary;Jenkins  
smith79;5079;Jamie;Smith
```

### Task 4

```
import pandas as pd  
file = pd.read_csv("username.csv")
```

**Output:**



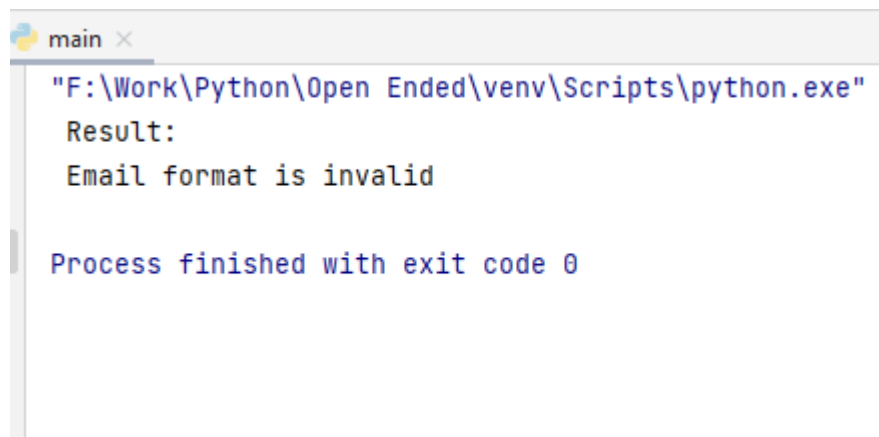
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jenkins46;9346;Mary;Jenkins  
smith79;5079;Jamie;Smith
```

## Task 5

```
import regex as re
expression = '\b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,}\b'
def check(email):
    if(re.search(expression, email)):
        print(" Result:\n Email format is valid")
    else:
        print(" Result:\n Email format is invalid")
email = "iqrarijaz788@gmail.com"
check(email)
```

## Output:



```
main x
"F:\Work\Python\Open Ended\venv\Scripts\python.exe"
Result:
Email format is invalid

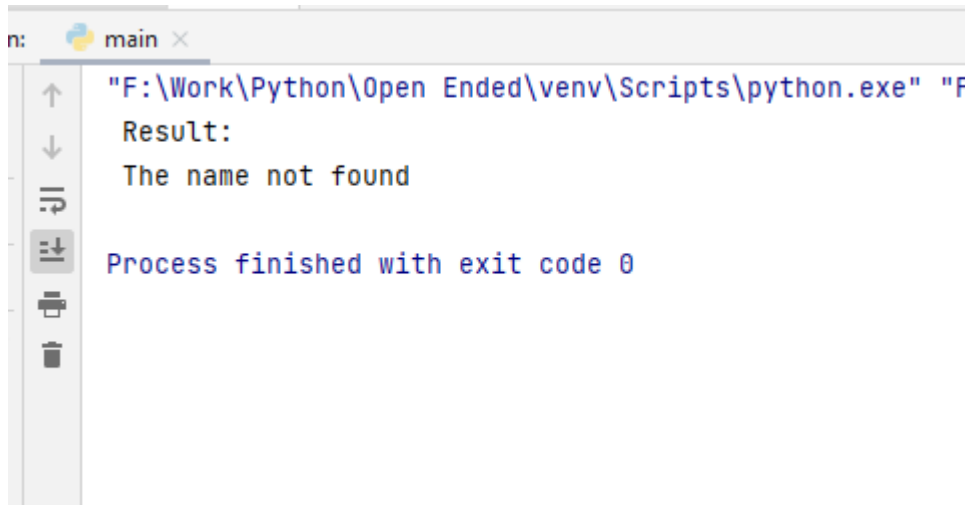
Process finished with exit code 0
```

## Task 6

```
import regex as re
expression = "^[a-zA-Z'-]+$"
name = "Iqrar Ijaz"
def check(name):
    if(re.search(expression, name)):
        print(" Result:\n The name is present")
    else:
        print(" Result:\n The name not found")

check(name)
```

## Output:



```
n: main x
"F:\Work\Python\Open Ended\venv\Scripts\python.exe" "F
Result:
The name not found
Process finished with exit code 0
```

## Conclusion

I completed the tasks given to us and pasted output above.