

## Practical 10

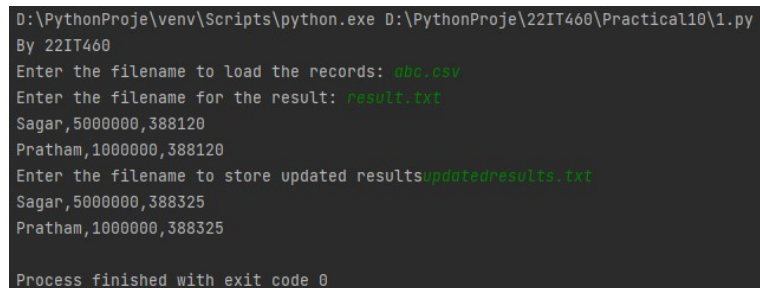
### Aim: Regular Expression

- 1) Write a program to identify employees with the address pincode 388120 using regular expressions. Store the names along with their salaries in a file. Additionally, update the records in the file by changing the pincode from 388120 to 388325 for all employees whose address previously had the old pincode.

#### Code:

```
import re
print("By 22IT460")
filename = input("Enter the filename to load the records: ")
with open(filename, "r") as f:
    lines = f.readlines()
result = input("Enter the filename for the result: ")
with open(result, "w") as f:
    for line in lines:
        if re.search("388120", line):
            print(line, end="")
            f.write(line)
result1 = input("Enter the filename to store updated results")
with open(result, "r") as f:
    content = f.readlines()
with open(result1, "w") as f:
    for lines in content:
        temp = re.sub("388120", "388325", lines)
        print(temp, end="")
        f.write(temp)
```

#### Output:



```
D:\PythonProje\venv\Scripts\python.exe D:\PythonProje\22IT460\Practical10\1.py
By 22IT460
Enter the filename to load the records: abc.csv
Enter the filename for the result: result.txt
Sagar,5000000,388120
Pratham,1000000,388120
Enter the filename to store updated results: updatedresults.txt
Sagar,5000000,388325
Pratham,1000000,388325
Process finished with exit code 0
```

```
Sagar,5000000,388120
Darpi,100000,366123
Avadh,10000000,323221
Rakesh,100000,366421
Neel,500000,362266
Pratham,1000000,388120
Rishabh,123123,391221
Suraj,12122,344321      abc.csv
```

```
Sagar,5000000,388120
Pratham,1000000,388120      result.txt
```

```
Sagar,5000000,388325
Pratham,1000000,388325      updatedresults.txt
```

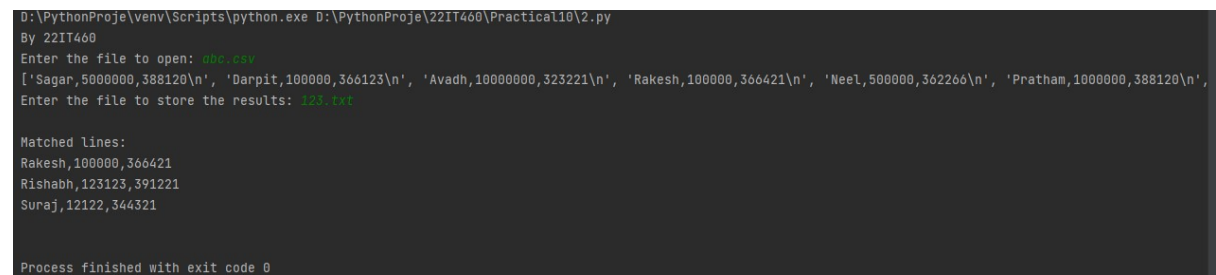
## 2) Write a program to find out name starts with letter R or S and ends with H or J.

### Code:

```
import re
print("By 22IT460")
filename = input("Enter the file to open: ")
with open(filename, "r") as f:
    lines = f.readlines()
    f.close()
print(lines)
result = input("Enter the file to store the results: ")
with open(result, "w") as f:
    for line in lines:
        words = line.split(",")
        if re.search(r"^[RSrs].*[HJhj]$", words[0]):
            f.write(line)

with open(result, "r") as f:
    content = f.read()
    f.close()
print("\nMatched lines:")
print(content)
```

### Output:



```
D:\PythonProje\venv\Scripts\python.exe D:\PythonProje\22IT460\Practical10\2.py
By 22IT460
Enter the file to open: abc.csv
['Sagar,5000000,388120\n', 'Darpi,100000,366123\n', 'Avadh,10000000,323221\n', 'Rakesh,100000,366421\n', 'Neel,500000,362266\n', 'Pratham,1000000,388120\n',
Enter the file to store the results: 123.txt

Matched lines:
Rakesh,100000,366421
Rishabh,123123,391221
Suraj,12122,344321

Process finished with exit code 0
```

```
Sagar,5000000,388120
Darpi,100000,366123
Avadh,10000000,323221
Rakesh,100000,366421
Neel,500000,362266
Pratham,1000000,388120
Rishabh,123123,391221
Suraj,12122,344321      abc.csv
```

```
Rakesh,100000,366421
Rishabh,123123,391221
Suraj,12122,344321      123.txt
```