

*''' A program to help with Dictionary3.py*

*Assume there is a file called Students.txt which has the name of a student and their sex (male or female) for a number of students. The file would look like the following:*

*-----*  
*John Smith*

*male*

*Ann Jones*

*female*  
*-----*

*This program will allow the user to input whether they wish to see the males or females and then have the names of those students outputted onto the monitor '''*

```
snIn = open ("Students.txt", "r")    # Opens the data file to input the data
```

```
lookFor = input ("Male or female? ")    # User's choice of what data they wish to see
```

```
inFile = False    # Boolean variable to be used to output a message if there are no matches  
                # Assumes that there will be no matches in the file with the choice inputted by the user
```

```
print ("The names of the", lookFor, "are:")
```

```
while True :
```

```
    student = {}    # Creates a new blank dictionary  
                  # This should be done in the loop
```

```
    student ["Name"] = str.strip (snIn.readline () )
```

```
    if student ["Name"] == "": # Exits the loop at the end of the file  
        break
```

```
    student ["Sex"] = str.strip (snIn.readline () )
```

```
    if student ["Sex"] == lookFor:    #Checks to see if there is a match between the data read and what  
                                    # the user is looking for
```

```
        print (student ["Name"])
```

```
        inFile = True    # If there is at least one match, inFile becomes True
```

```
if inFile == False :    # Outputs a message if there are no matches  
    # MUST be after the loop
```

```
    print ("Selection not in file")
```

```
snIn.close ()
```