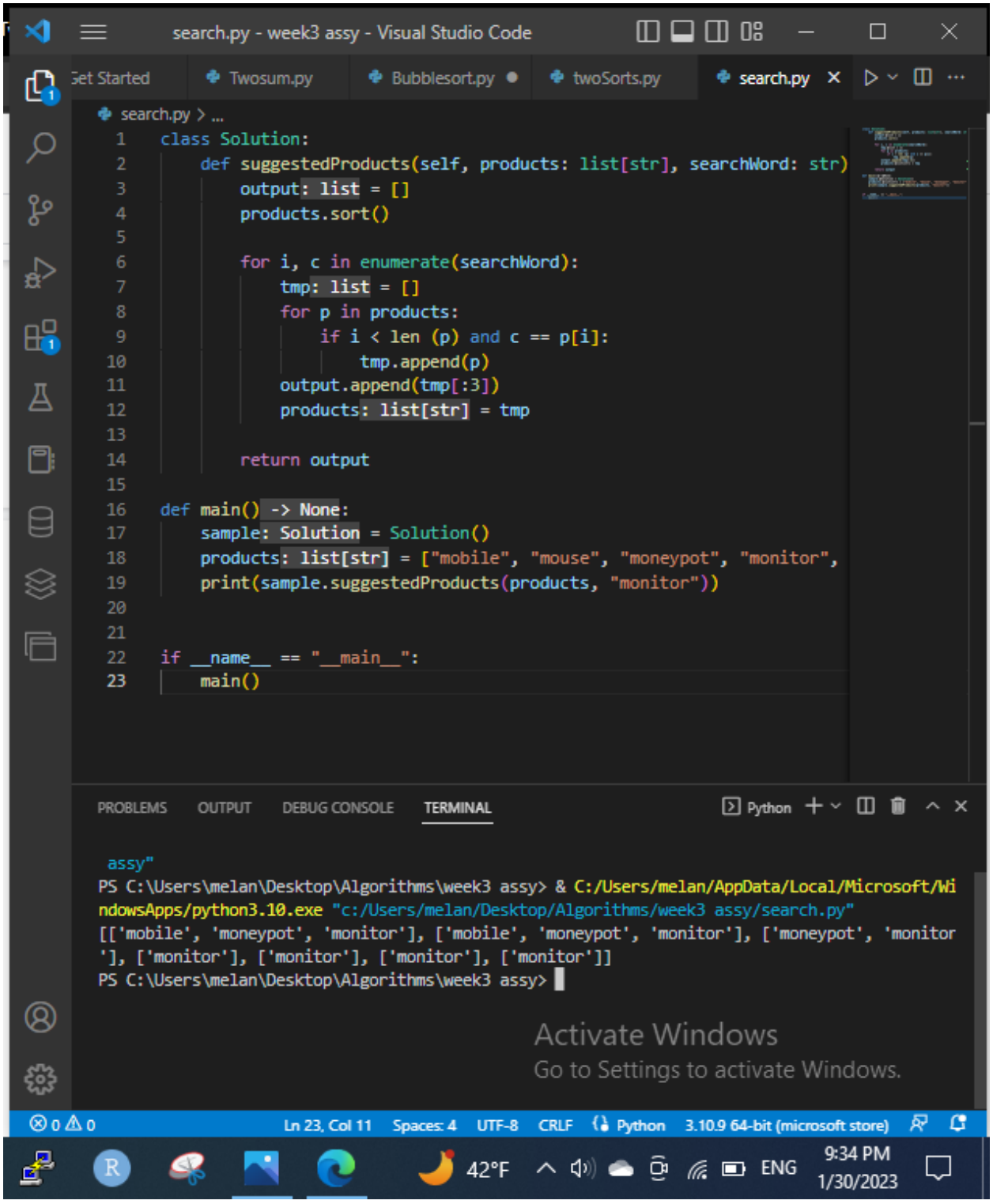
```
// Java code for linearly search x in arr[]. If x
// is present then return its location, otherwise
// return -1

class GFG
{
public static int search(int arr[], int x)
{
    int n = arr.length;
    for(int i = 0; i < n; i++) // O(N)
    {
        if(arr[i] == x)
            return i;
    }
    return -1;
}

public static void main(String args[])
{
    int arr[] = { 2, 3, 4, 10, 40 };
    int x = 10;

    int result = search(arr, x);
    if(result == -1)
        System.out.print("Element is not present in array");
    else
        System.out.print("Element is present at index " + result);
}
}
```

BIG O = O(N)

OPTIONAL:


search.py - week3 assy - Visual Studio Code
Get Started
Twosum.py
Bubblesort.py
twoSorts.py
search.py
search.py > ...
class Solution:
def suggestedProducts(self, products: list[str], searchWord: str)
output: list = []
products.sort()
for i, c in enumerate(searchWord):
tmp: list = []
for p in products:
if i < len (p) and c == p[i]:
tmp.append(p)
output.append(tmp[:3])
products: list[str] = tmp
return output
def main() -> None:
sample: Solution = Solution()
products: list[str] = ["mobile", "mouse", "moneypot", "monitor",
print(sample.suggestedProducts(products, "monitor"))
if __name__ == "__main__":
main()
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Python
assy"
PS C:\Users\melan\Desktop\Algorithms\week3 assy> & C:/Users/melan/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/melan/Desktop/Algorithms/week3 assy/search.py"
[['mobile', 'moneypot', 'monitor'], ['mobile', 'moneypot', 'monitor'], ['moneypot', 'monitor'], ['monitor'], ['monitor'], ['monitor'], ['monitor']]
PS C:\Users\melan\Desktop\Algorithms\week3 assy>
Activate Windows
Go to Settings to activate Windows.
Ln 23, Col 11
Spaces: 4
UTF-8
CRLF
Python
3.10.9 64-bit (microsoft store)
42°F
ENG
9:34 PM
1/30/2023