

INTEGRATIVE PROGRAMMING AND TECHNOLOGIES

PRACTICAL EXAM 1

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SECTION	TW23
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```
Source Code:
exclude words = ["and", "but", "or", "nor", "for",
"so", "yet", "a", "an", "the", "of"]
user input = input("Enter a string statement: ")
print('')
words = user input.split() # Separates statement into
individual words
count = {} # Store number of words
lowercase = []
uppercase = []
for word in words:
    word fixed = word.strip(",.!?") # Remove
punctuation but keep the original case
    word lower = word fixed.lower() # Convert to
lowercase for checking
    if word lower.isalnum():
        if word lower not in exclude words: # Check if
it's not in excluded words
            count[word fixed] = count.get(word fixed,
0) + 1 # Store original word
#separate words into lowercase and uppercase categories
for word in count:
    if word[0].islower():
        lowercase.append(word)
    else:
       uppercase.append(word)
#to sort in alphabetical order
lowercase.sort()
uppercase.sort()
if count:
    max length = max(len(word) for word in count)
else:
    \max length = 0
```

```
for word in lowercase:
    print(word.ljust(max_length + 2) + "- " +
str(count[word])) # ljust for alignment
for word in uppercase:
    print(word.ljust(max_length + 2) + "- " +
str(count[word]))

print("\nTotal words filtered:", sum(count.values()))
```

Verify:

```
Enter a string statement: The quick brown fox jumps over the lazy dog near the bank of the Piver the Quick Brown Fox Jumps over the lazy dog near the bank of the Piver the Quick Brown Fox Jumps over the lazy dog near the bank of the Piver the Rever Bank Stream Fox Jumps over the lazy dog near the bank of the Piver the Pack Brown Fox Jumps over the Lazy Dog Near The Bank Of The Nountain

| Description | Piver |
```

Other Output:

```
Enter a string statement: Hello! I am Tara Victoria E. Gerones and I am 20 years old who is currently studying at FEU TECH.

am - 2
at - 1
currently - 1
is - 1
old - 1
studying - 1
who - 1
years - 1
20 - 1
E - 1
FEU - 1
Gerones - 1
Hello - 1
I - 2
TECH - 1
Tara - 1
Victoria - 1

Total words filtered: 19
```