1: Implement and demonstrate the FIND-S algorithm

```
import random
import csv
```

```
data_list = []
with open('ws.csv', 'r') as csvFile:
    reader = csv.reader(csvFile)
    for row in reader:
        data_list.append(row)
```

```
num_attributes = len(attributes)
hypothesis = ['0'] * num_attributes

print("The initial value of hypothesis:", end='\n'*3)
print(hypothesis)
```

The initial value of hypothesis:

```
['0', '0', '0', '0', '0', '0']
```

```
# Comparing with First Training Example ( Assigning )

*first_sample, output = data_list[0]
hypothesis = first_sample[:] # Deep copy
```

```
print(" The Maximally Specific Hypothesis for a given Training Examples:", end='\n'*2') print(hypothesis)
```

The Maximally Specific Hypothesis for a given Training Examples:

```
['Sunny', 'Warm', '?', 'Strong', '?', '?']
```

```
# PS: Dataset for clarity
print(open('ws.csv').read())
```

Sunny, Warm, Normal, Strong, Warm, Same, Yes Sunny, Warm, High, Strong, Warm, Same, Yes Rainy, Cold, High, Strong, Warm, Change, No Sunny, Warm, High, Strong, Cool, Change, Yes