

PYTHON ASSIGNMENT - 1

Q1. WAP to take users favourite movies and store it in a list and print it at the end

Code:-

```
num_movies = int(input("Enter number of movies: "))
```

```
movie_list = []
```

```
i = 1
```

```
while i <= num_movies:
```

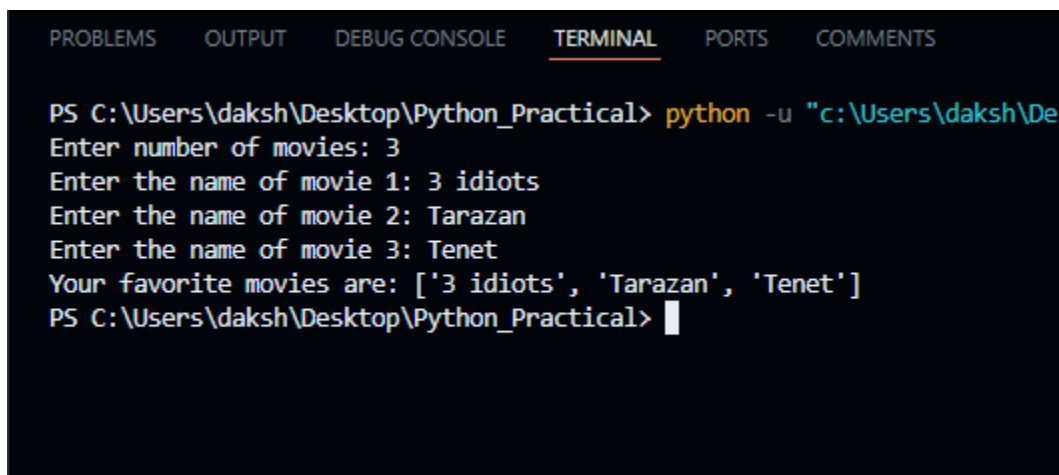
```
    movie = input(f"Enter the name of movie {i}: ")
```

```
    movie_list.append(movie)
```

```
    i += 1
```

```
print("Your favorite movies are:", movie_list)
```

Output:



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
PS C:\Users\daksh\Desktop\Python_Practical> python -u "c:\Users\daksh\Desktop\Python_Practical\q1.py"
Enter number of movies: 3
Enter the name of movie 1: 3 idiots
Enter the name of movie 2: Tarazan
Enter the name of movie 3: Tenet
Your favorite movies are: ['3 idiots', 'Tarazan', 'Tenet']
PS C:\Users\daksh\Desktop\Python_Practical>
```

Q2. WAP to check if a list is palindrome

Code:-

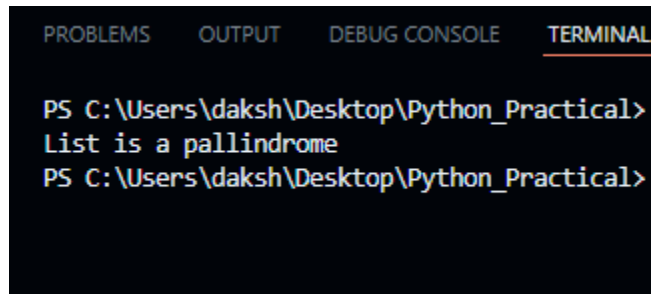
```
list = [1,2,3,2,1]
```

```
list1 = list.copy()
list1.reverse()

if list == list1:
    print("List is a pallindrome")

else:
    print("List isn't a pallindrome")
```

Output:

A screenshot of a terminal window with a dark background. At the top, there are four tabs: 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL', with 'TERMINAL' being the active tab. The terminal shows a command prompt 'PS C:\Users\daksh\Desktop\Python_Practical>' followed by the output 'List is a pallindrome' and another command prompt 'PS C:\Users\daksh\Desktop\Python_Practical>'.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\daksh\Desktop\Python_Practical>
List is a pallindrome
PS C:\Users\daksh\Desktop\Python_Practical>
```

Q3. WAP to evaluate methods of string

Code:-

```
sample_string = "Hello, World!"

# Convert to uppercase
upper_string = sample_string.upper()
print("Uppercase:", upper_string)
```

```
# Convert to lowercase
```

```
lower_string = sample_string.lower()
```

```
print("Lowercase:", lower_string)
```

```
# Capitalize the first letter
```

```
capitalized_string = sample_string.capitalize()
```

```
print("Capitalized:", capitalized_string)
```

```
# Find a substring
```

```
substring_index = sample_string.find("World")
```

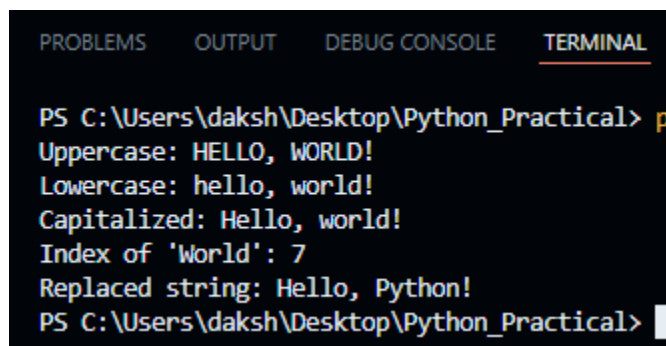
```
print("Index of 'World':", substring_index)
```

```
# Replace a substring
```

```
replaced_string = sample_string.replace("World", "Python")
```

```
print("Replaced string:", replaced_string)
```

Output:-

A screenshot of a terminal window with a dark background. At the top, there are four tabs: 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL', with 'TERMINAL' being the active tab. The terminal shows the following output:

```
PS C:\Users\daksh\Desktop\Python_Practical> p
Uppercase: HELLO, WORLD!
Lowercase: hello, world!
Capitalized: Hello, world!
Index of 'World': 7
Replaced string: Hello, Python!
PS C:\Users\daksh\Desktop\Python_Practical>
```

4. WAP to find a matching element from the list

Code:-

```
list = [1,2,3,4,5,6]
```

```
num = int(input("Enter the value of element you want to find: "))
```

```
i=1
```

```
while i<len(list):
```

```
    if num == list[i]:
```

```
        print(num , 'found at' , list[i])
```

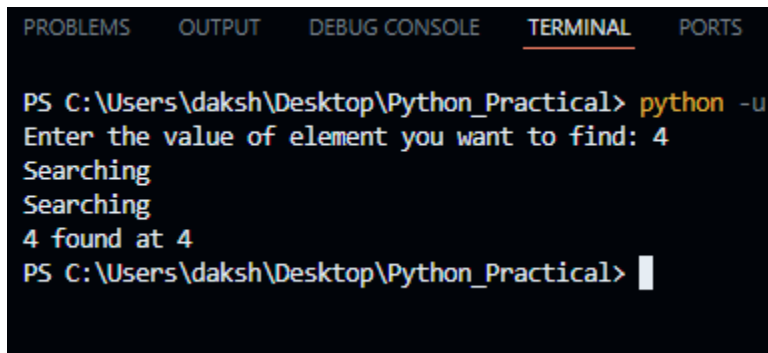
```
        break
```

```
    else:
```

```
        print("Searching")
```

```
    i+=1
```

Output:-



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\daksh\Desktop\Python_Practical> python -u
Enter the value of element you want to find: 4
Searching
Searching
4 found at 4
PS C:\Users\daksh\Desktop\Python_Practical>
```

5. WAP to check if a string is palindrome

Code:-

```
samp_string = str(input("Enter your string: "))
```

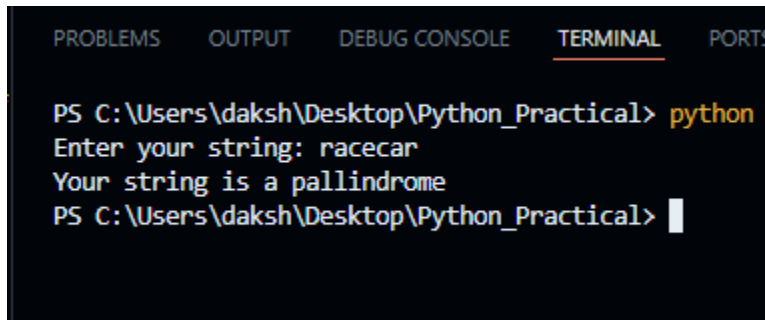
```
if samp_string == samp_string[::-1]:
```

```
    print("Your string is a pallindrome")
```

```
else:
```

```
    print("Your string is not a pallindrome")
```

Output:-



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\daksh\Desktop\Python_Practical> python
Enter your string: racecar
Your string is a pallindrome
PS C:\Users\daksh\Desktop\Python_Practical>
```

6. WAP to find the frequency of an element provided by user in the list

Code:-

```
list = [1,2,3,4,5,6,3,3,3,3]
```

```
num = int(input("Enter the value of element you want to find: "))
```

```
i=1
```

```
count=0
```

```
while i<len(list):
```

```
    if num == list[i]:
```

```
        print(num , 'found at' , 'list ',i)
```

```
count += 1
```

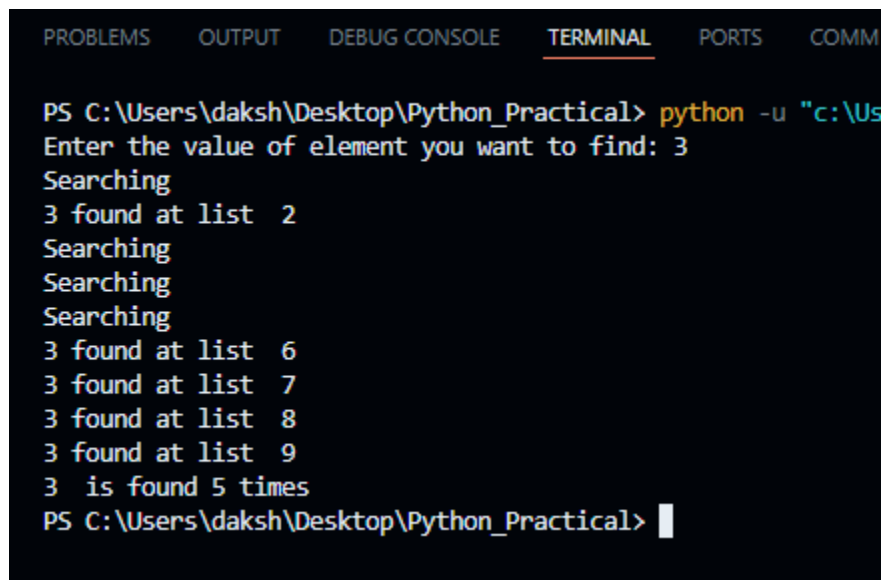
```
else:
```

```
    print("Searching")
```

```
    i+=1
```

```
print(num,' is found',count,'times')
```

Output:-



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMM
PS C:\Users\daksh\Desktop\Python_Practical> python -u "c:\Us
Enter the value of element you want to find: 3
Searching
3 found at list 2
Searching
Searching
Searching
3 found at list 6
3 found at list 7
3 found at list 8
3 found at list 9
3 is found 5 times
PS C:\Users\daksh\Desktop\Python_Practical> |
```