1. Reverse a string "WorldWord". Hint: :: or join

CODE:

```
reversed_string = "WorldWord"[::-1]
print(reversed_string) # Output: droWdlroW
reversed_string = ".join(reversed("WorldWord"))
print(reversed_string) # Output: droWdlroW
```

```
# print(x)

print(reversed_string = "WorldWord"[::-1]

print(reversed_string) # Output: droWdlroW

reversed_string = ''.join(reversed("WorldWord"))

reversed_string = ''.join(reversed("WorldWord"))

print(reversed_string) # Output: droWdlroW

PROBLEMS OUTPUT DEBUG CONSOLE IERMINAL PORTS

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droWillroW

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```

2. Remove duplicates in ['dog','cat','tiger','dog', 'tiger'] Hint: use set

CODE:

```
animals = ['dog', 'cat', 'tiger', 'dog', 'tiger']
unique_animals = list(set(animals))
print(unique_animals)
```

```
306
307
308 animals = ['dog', 'cat', 'tiger', 'dog', 'tiger']
309 unique_animals = list(set(animals))
310 print(unique_animals)
311

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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3. Perform union and intersection using Set

CODE:

```
set1 = {'Toyota', 'Honda', 'Ford', 'BMW'}
set2 = {'BMW', 'Tesla', 'Audi', 'Ford'}
union_set = set1 | set2
print("Union:", union_set)
intersection_set = set1 & set2
print("Intersection:", intersection_set)
```

```
hello.py > ...

334

335

336  # Set 1: Car names
337  set1 = {'Toyota', 'Honda', 'Ford', 'BMW'}
338

339  # Set 2: Car names
340  set2 = {'BMW', 'Tesla', 'Audi', 'Ford'}
341

342  # Union of set1 and set2
343  union_set = set1 | set2
344  print("Union:", union_set)
345

# Intersection of set1 and set2
347

intersection_set = set1 & set2
348

print("Intersection:", intersection_set)

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4. Create virtual environment and show installation of package matplotlib and import of modules for visualization.

ANSWER:

```
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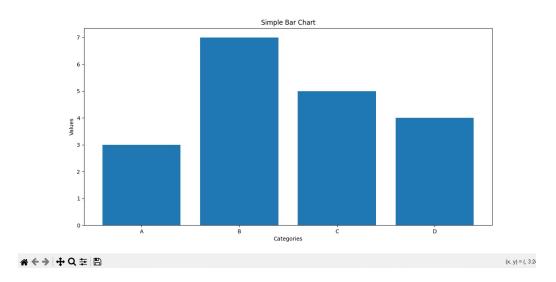
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% Figure 1 − ♂ >



5. Create a range to display players list within Players class

```
class Players:
    def __init__(self, players):
        self.players = players

def display_players(self, start, end):
    if start < 0 or end > len(self.players) or start > end:
        print("Invalid range")
        return

for i in range(start, end):
        print(f"Player {i + 1}: {self.players[i]}")

players_list = ['Swathi', 'Vishnu', 'Vani', 'Subbaraj', 'Maha', 'Kutta']
team = Players(players_list)

team.display_players(1, 5)
```