~\Downloads\# Initial list of Justice League members.py

```python
# Initial list of Justice League members
justice_league = [
    "Superman",
    "Batman",
    "Wonder Woman",
    "Flash",
    "Aquaman",
    "Green Lantern"
]

# 1. Calculate the number of members in the Justice League
num_members = len(justice_league)
print(f"Number of members in the Justice League: {num_members}")

# 2. Add Batgirl and Nightwing to the list
justice_league.append("Batgirl")
justice_league.append("Nightwing")
print(f"After adding Batgirl and Nightwing: {justice_league}")

# 3. Move Wonder Woman to the beginning of the list
justice_league.remove("Wonder Woman")
justice_league.insert(0, "Wonder Woman")
print(f"After moving Wonder Woman to the beginning: {justice_league}")

# 4. Move either "Green Lantern" or "Superman" between Aquaman and Flash
# Let's choose "Green Lantern" for this example
justice_league.remove("Green Lantern")
flash_index = justice_league.index("Flash")
justice_league.insert(flash_index, "Green Lantern")
print(f"After moving Green Lantern between Aquaman and Flash: {justice_league}")

# 5. Replace the existing list with new members
new_members = [
    "Cyborg",
    "Shazam",
    "Hawkgirl",
    "Martian Manhunter",
    "Green Arrow"
]
justice_league = new_members
print(f"After replacing the list with new members: {justice_league}")

# 6. Sort the list alphabetically and determine the new leader
justice_league.sort()
print(f"After sorting alphabetically: {justice_league}")

# BONUS: Predict the new leader
new_leader = justice_league[0]
```

```
49 print(f"The new leader of the Justice League is: {new_leader}")
50
```