```
"""if else
tuple
lists
sorting function
palindrome"""
```

```
age = int(input("Enter your age: "))

if age >= 18:
    print("You are eligible to vote.")
else:
    print("You are not eligible to vote yet.")
```

```
Enter your age: 18
You are eligible to vote.
```

```
marks = int(input("Enter your marks: "))

if marks >= 90:
    print("Grade: A")
elif marks >= 75:
    print("Grade: B")
elif marks >= 60:
    print("Grade: C")
else:
    print("Grade: D")
```

```
Enter your marks: 89
Grade: B
```

Tuple

```
person = ("John", 25, "Engineer")

name, age, profession = person

print("Name:", name)
print("Age:", age)
print("Profession:", profession)
```

```
Name: John
Age: 25
Profession: Engineer
```

```
numbers = (10, 20, 30, 40)

if 20 in numbers:
    print("20 is in the tuple")
else:
    print("20 is not in the tuple")
```

```
20 is in the tuple
```

Lists

```
marks = [50, 10, 40, 20, 30]

marks.sort()
print("Sorted marks:", marks)
```

```
Sorted marks: [10, 20, 30, 40, 50]
```

```
colors = ["red", "green", "blue"]

colors.append("yellow")     # Add
colors.remove("green")      # Remove
```

```
print(colors)
```

```
['red', 'blue', 'yellow']
```

Sorting Function

```
numbers = [5, 1, 4, 2, 3]

numbers.sort()

print("Sorted list:", numbers)
```

```
Sorted list: [1, 2, 3, 4, 5]
```

```
names = ["Ravi", "Asha", "John", "Meena"]

names.sort()

print("Sorted names:", names)
```

```
Sorted names: ['Asha', 'John', 'Meena', 'Ravi']
```

```
numbers = [5, 1, 4, 2, 3]

numbers.sort(reverse=True)

print("Descending order:", numbers)
```

```
Descending order: [5, 4, 3, 2, 1]
```

Palindrome

```
text = input("Enter a string: ")

if text == text[::-1]:
    print("It is a palindrome.")
else:
    print("It is not a palindrome.")
```

```
Enter a string: madam
It is a palindrome.
```

```
text = input("Enter a string: ")

if text == text[::-1]:
    print("It is a palindrome.")
else:
    print("It is not a palindrome.")
```

```
Enter a string: Madam
It is not a palindrome.
```