Conditional Statements in Python

- if >>> executes if condition is "True"
- else >>> executes if all conditions are "False"
- elif >>> executes if previous condition is "False" and this condition is "True"
- nested if >>> if condition inside another if condition.

if

```python
In [12]: patient_age = 25

if patient_age >=18:
    print ("patient is eligible for the adult clinical trial")
```

patient is eligible for the adult clinical trial

```python
In [ ]:
```

```python
In [ ]:
```

```python
In [3]: age = 20
if age >=18:
    print ("eligible for vote")
```

eligible for vote

```python
In [4]: age = 20
if age >=20: print ("eligible for vote")
```

eligible for vote

if else

```python
In [14]: consent_signed = False
if consent_signed:
    print("consent received. Patient can be enrolled")
else:
    print ("consent missing")
```

consent missing

```python
In [ ]:
```

```python
In [ ]:
```

```python
In [5]: age = 4
if age <=5:
    print ("eligible for free travel")
else:
    print ("pay for ticket")
```

eligible for free travel

In [6]:
```python
age = 6
if age <=5:
    print ("eligile for free travel")
else:
    print ("pay for ticket")
```

pay for ticket

In [7]:
```python
marks = 45
res = "Pass" if marks >= 40 else "Fail"
print(f"Result: {res}")
```

Result: Pass

if elif else

In [ ]:

In [ ]:

In [ ]:

In [11]:
```python
age = 40
if age <=10:
    print ("child")
elif age <=18:
    print("teenager")
elif age <=35:
    print ("young adult")

else:
    print("adult")
```

adult

nested if else

In [15]:
```python
blood_pressure = 150
heart_rate = 105

if blood_pressure > 140:
    if heart_rate > 100:
        print ("immediate medical attention required")
    else:
        print ("hypertension detected")
else:
    print ("normal health condition")
```

immediate medical attention required

In [ ]: