In [2]:
```
age = 20

if age >= 18:
    print("Eligible to vote.")
```

```
Eligible to vote.
```

In [3]:
```
age = 19
if age > 18: print("Eligible to Vote.")
```

```
Eligible to Vote.
```

In [4]:
```
age = 10

if age <= 12:
    print("Travel for free.")
else:
    print("Pay for ticket.")
```

```
Travel for free.
```

In [5]:
```
marks = 45
res = "Pass" if marks >= 40 else "Fail"

print(f"Result: {res}")
```

```
Result: Pass
```

In [6]:
```
age = 25

if age <= 12:
    print("Child.")
elif age <= 19:
    print("Teenager.")
elif age <= 35:
    print("Young adult.")
else:
    print("Adult.")
```

```
Young adult.
```

In [7]:
```
age = 70
is_member = True

if age >= 60:
    if is_member:
        print("30% senior discount!")
    else:
        print("20% senior discount.")
else:
    print("Not eligible for a senior discount.")
```

```
30% senior discount!
```

In [8]:
```
# Assign a value based on a condition
age = 20
s = "Adult" if age >= 18 else "Minor"
```

```
print(s)
```

```
Adult
```

In [9]:
```
number = 2

match number:
    case 1:
        print("One")
    case 2 | 3:
        print("Two or Three")
    case _:
        print("Other number")
```

```
Two or Three
```

In [12]:
```
if True:
 print('hello')
```

```
hello
```

In [13]:
```
if False:
 print('Bye')
```

In [15]:
```
if True:
 print('Data Science')
 print('Bye Now')
```

```
Data Science
Bye Now
```

In [18]:
```
if False:
 print('Data Science')
print('Hey Bye for now')
```

```
Hey Bye for now
```

In [19]:
```
if True:
  print('Data Science')
else:
  print('Bye')
```

```
Data Science
```

In [20]:
```
if False:
  print('Data Science')
else:
 print('Bye for now')
```

```
Bye for now
```

EVEN OR ODD

In [22]:
```
x = 4
r = x%2
if r==0:
 print('even number')
```

```
even number
```

In [23]:
```
x = 5
r = x%2
if r==0:
 print('Even number')
```

In [24]:
```
x = 6
r =x%2
if r==0:
 print('even number')
if r==1:
 print('odd number')
```

```
even number
```

In [25]:
```
x = 7
r =x%2
if r==0:
 print('even number')
else:
 print('odd number')
```

```
odd number
```

In [27]:
```
x = 8
r = x%2
if r==0:
 print('even number')
 print('odd numbeR')
```

```
even number
odd numbeR
```

In [28]:
```
x = 5
r = x%2
if r==0: print('even number')
else: print('odd number')
```

```
odd number
```

In [30]:
```
x = 10
r = x % 2
if r == 0:
 print('Even number')
if r == 1:
 print('odd number')
```

```
Even number
```

In [31]:
```
x = 9
r = x % 2
if r == 0:
 print('Even number')
```

NESTED IF

In [34]:
```
x = 6
r = x%2
if r==0:
 print('even number')
if x>8:
 print('Greater number')
else:
 print('odd number')
```

```
even number
odd number
```

In [35]:
```
x = 7
r = x%2
if r==0:
 print('even number')
if x>4:
 print('Greater number')
else:
 print('odd number')
```

```
Greater number
```

In [36]:
```
x = 9
if x==1:
 print('One')
if x==2:
 print('Two')
if x==3:
 print('Three')
if x==9:
 print('Nine')
```

```
Nine
```

In [37]:
```
x = 2
if x==1:
 print('One')
elif x==2:
 print('Two')
elif x==3:
 print('Three')
```

```
Two
```

In [39]:
```
x =10
if x==1:
 print('One')
elif x==2:
  print('two')
elif x==3:
 print('Three')
else:
 print('Not a number')
```

```
Not a number
```