

control flow statement

in which you define the order in which code or block of the statement are executed

Types of the control flow statement/

1. Conditional statement/

1. if, elif, else we called condition statements
2. for, while we called loop statements (iterative statement)
3. break, continue and pass we called jump statement
4. try, except, finally

if and else statement

if statement is used to execute a block of code if a condition is true *else statement is used to execute a block of code if a condition is false*

Example 1

```
age=17
if age>=18:
    print("eligible")
else:
    print("not eligible")
```

Example 2

```
adnan_pocket_money = 11000
if adnan_pocket_money > 1000:
    print("i can buy a car")
elif adnan_pocket_money > 500:
    print("i can buy a bike")
elif adnan_pocket_money > 100:
    print("i can buy a laptop")
else:
    print("i can't buy anything")
```

Example 3

```
marks = 85
if marks >= 90:
    print("A grade")
elif marks >= 80:
    print("B grade")
elif marks >= 70:
    print("C grade")
else:
    print("F grade")
```

Example 4

```
asad = adnan_pocket_money
```

if adnan_pocket_money > 50:

```
print("adnan can borrow the money from asad")
```

else:

```
print("adnan can't borrow the money from asad")
```

Example 5

```
month_expense = 100000  
adnan_pocket_money = 10000  
if adnan_pocket_money == month_expense:  
print("need more money")  
elif month_expense < adnan_pocket_money:  
print("brow money from asad")  
elif month_expense > adnan_pocket_money:  
print("adnan can't borrow the money from asad")  
else:] print("enough money")
```

Example 6

1. a=15
2. b=25
3. if a==b:
4. print("a is equal to b")
5. if a!=b:
6. print("a is not equal to b")

Example 7

```
{  
  siblings=["asad","haris","zakriya"]  
if "asad" and "maryam" in siblings:  
  print("no they are siblings")  
elif "zakriya" or "asad":  
  print("yes they are siblings")  
else:  
  print("add maryam in sibling list")  
}
```

```
### Example 8
{
    is_sunny= True
is_happy= False
if is_sunny==is_happy:
    print("you can outside for walk")
elif is_sunny!=is_happy:
    print("stay home and do meditation")
else:
    print("you can not outside for walk")
}
```

Example 10

```
for i in range(1, 6): # Outer loop for numbers 1 to 5
    for j in range(1, 6): # Inner loop for numbers 1 to 5
        result = i * j # Calculate the multiplication result
        if result % 2 == 0: # Check if the result is even
            print(f"{i} * {j} = {result} is even")
        else: # If the result is not even, it's odd
            print(f"{i} * {j} = {result} is odd")
    print() # Print a blank line after each row of the
```

Example 11

```
{
age=17
license=True
if age>18:
    if license==True:
        print("you can drive")
    else:
        print("you can not drive")
else:
    print("you can not drive")
}
```