

Conditional Statements:

The most common conditional statements used for decision-making in programming are

- If → satisfy
- If - else
- If - elif - else
- switch - case *(No Python)*

if - statement :

```
w = input()
if w == "Sunny":
    Print ("Cricket")
```

dp : Cricket

if - else statement :

```
weather = "Rainy"
input ("Give w:")
if weather == "Sunny":
    Print ("Cricket")
else:
    Print ("Robot")
Print ("Code ended here !!!")
```

Syntax:

- * If the condition is true, the code block under the if branch is executed and the code block under the else branch is skipped.
- * If the condition is false, the code block under the else branch is executed, and the code block under the if branch is skipped.

if - elif - else - statement :

```
w = input ("Give w:")
if w == "Sunny":
    Print ("Cricket")
elif w == "Rainy":
    Print ("Rainy, Play Indoor games")
else:
    Print ("Robot")
```

Syntax :

The condition is an expression that evaluates to either True or False. If the condition is true, the indented block of code under the if statement is executed; otherwise it is skipped.

Syntax:

```
if condition 1:  
# code to be executed if condition 1 is true  
elif condition 2:  
# code to be executed if condition 2 is true  
elif condition 3:  
# code to be executed if condition 3 is true  
else:  
# code to be executed if none of the conditions  
are true.
```

Nested If statements:

```
w = "sunny"  
time_of_day = "night"  
if weather == "sunny":  
    if time_of_day == "day":  
        print ("You play with your car toy.")  
    else:  
        print ("It's night. Time to sleep.")  
elif weather == "rainy":  
    print ("You play with your boat toy.")  
elif weather == "snowy":  
    if time_of_day == "night":  
        print ("You play with your teddy. bear toy.")  
    else:  
        print ("You play with your snowman toy.")
```

Calculator Program:

```
num1 = int(input("Give 1st number:"))
num2 = int(input("Give 2nd Number:"))
operator = input("Give operator:")
if operator == "+":
    print(f"Addition of 2 numbers is {num1+num2}")
elif operator == "-":
    print(f"Subtraction of 2 numbers is {num1-num2}")
elif operator == "*":
    print(f"Multiplication of 2 numbers is {num1*num2}")
elif operator == "/":
    print(f"Division of 2 numbers is {num1/num2}")
else:
    print("Invalid operator")
```