**Conditional Statements:**

**===============**

-> Python can work based on the sequential execution.

-> Statement by statement or line by line execution is called as "Sequential Execution".

Ex:

a = 10

b = 21

c = a + b

print(c)

Ex:

block1:

st1

st2

block2:

st3

st4

block3:

st5

st6

when we want to execute the specific block of code out of multiple blocks of code, we can use "conditional statements".

-> From the above example, there are three blocks. Out of these three blocks, suppose I want to make execute block1 only or block2 only or block3 only then we can use "conditional statements".

-> There are three types of conditional statements:

1) simple if

2) if else

3) if elif else

1) simple if:

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here:

if is a keyword

used to define the if statement.

-> when we have only one block of code and want to execute or not to execute based on the condition, we can use "simple if".

Syntax:

if condition:

statement-1

statement-2

next statement

Ex:

you have 100/-

movie

ticket = 90/- 120/-

purse = 100

ticket = 90

if purse > ticket:

print("I can watch the movie")

print("Movie To be start")

2) if else

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-> Suppose we have two blocks of code within the same program.

-> among those only one block want to execute based on the condition,

then we can use "if-else"

Syntax:

if condition:

statement-1

statement-2

else:

statement-3

statement-4

next statement

Ex:

purse = 100

either movie or park

ticket = 90

ticket < purse:

can watch movie

ticket = 190

fails:

can go to park

purse = 100

ticket = 90

Program-1:

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if ticket < purse:

print("I can go to watch movie.")

else:

print("I can go to park.")

print("Have great day!")

Program-2:

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a = 100

b = 120

if a < b:

s = a + b

print("The sum of two numbers = ",s)

else:

d = a - b

print("The subtraction of two numbers = ",d)

3) if elif else

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-> when we have more than two blocks

and decide to execute with only one block out of multiple based on certain condition, then we can use "if elif else".

Here:

elif ==> keyword

to define external conditions.

Syntax:

if condition1:

statement-1

statement-2

elif condition2:

statement-3

statement-4

elif condition3:

statement-5

statement-6

....

...

elif condition-n:

statements

else:

statements

**# WAP TO FIND THE BIGGEST NUMBER AMONG THE FOUR INTEGERS.**

n1 = int(input("Enter first value:")) # 10 9 9 9

n2 = int(input("Enter second value:")) # 9 10 8 8

n3 = int(input("Enter third value:")) # 8 8 10 7

n4 = int(input("Enter forth value:")) # 7 7 7 10

if n1 > n2 and n1 > n3 and n1 > n4:

print("n1 is biggest number.")

elif n2 > n3 and n2 > n4:

print("n2 is biggest number.")

elif n3 > n4:

print("n3 is biggest number.")

else:

print("n4 is bigget number")

**Day-02**

**14-03-2025**

**=====================**

**# Write a script using python to test the login module.**

"""

assume:

facebook page ==> login page

username ==> "admin"

password ==> "admin123"

"""

username = input("Enter the user name:")

password = input("Enter the password:")

if username == "admin" and password == "admin123":

print("Welcome to Facebook!")

else:

print("Account is not found with the given details.")

**# Write a test case to test the billing system.**

"""

online food app

payment

user ==> food with cost of 250

distance is upto 3km ==> zero delivery fee

distance is 4 to 6 km ==> Rs 4 per km # 5.5

distance > 6km ==> 7 Rs per km

"""

order = float(input("Enter cost of the food:"))

distance = float(input("Enter the distance:"))# 4.5

totalFare = 0.0

delievryFee = 0.0

if distance <= 3.0:

totalFare = order + delievryFee

elif distance <= 6.0:

delievryFee = (distance -3) \* 4

totalFare = order + delievryFee

else:

d1 = distance - 3

d2 = d1-6

delievryFee = (d1) \* 4 + (d2) \* 7

totalFare = order + delievryFee

print(totalFare)

"""

distance is upto 5km, delivery charges are 0

above 5 km ==> 8% of order is as delivery charge

"""

distance = float(input("Enter the distance:"))

order = float(input("Enter the order cost:"))

deliveryFee = 0.0

if distance <= 5.0:

fare = order + deliveryFee

else:

deliveryFee = (8 / 100 \* order)

fare = order + deliveryFee

print(fare)

Assignment:

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1) Write a script to test whether the given number is even or odd.

2) Write a script to find the smallest number among four integers.

3) Write a script to check whether the number is positive or negative or zero.