PYTHON

9618

SELECTION STATEMENT

What are selection statements ?

Selection statements test conditions and based on the condition will cause a different set of instructions to be executed

LOGICAL CONDITIONS

Equal   : a == b
Not Equal   : a != b
Less Than   : a < b
Greater Than: a > b

Syntax Of If

if (condition):
    print("xyz")

Note: Python relies on indentation (whitespace at the beginning of a line) to define scope in the code. Other programming languages often use curly-brackets for this purpose.

Question

Ask the user to guess a number and if that number is equal to 20 then print "Sahi he lekin ye uska number nahi he jo khush ho rahe ho"

```python
guess_number = float(input("Guess the Number: "))
if guess_number == 20:
    print("Sahi he lekin ye uska number nahi jo khush ho rahe ho")
```
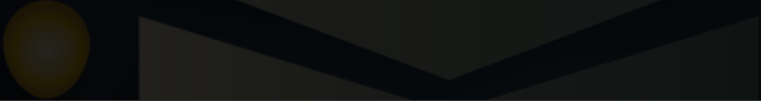
```
Guess the Number: 20
Sahi he lekin ye uska number nahi jo khush ho rahe ho
```

else

else: is the key word that is executed if the first condition is false

```python
guess_number = float(input("Guess the Number: "))
if guess_number == 20:
    print("Sahi he lekin ye uska number nahi jo khush ho rahe ho")
else:
    print("Apse Nah ho pae ga")
```

```
Guess the Number: 25
Apse Nah ho pae ga
```

elif

The elif keyword is pythons way of saying "if the previous conditions were not true, then try this condition"

```python
guess_number = float(input("Guess the Number: "))
if guess_number == 20:
    print("Sahi he lekin ye uska number nahi jo khush ho rahe ho")
elif guess_number == 21:
    print("Close Value")
else:
    print("Apse Nah ho pae ga")
```

```
Guess the Number: 21
Close Value
```

Boolean Operators

and : Both the condition should be true

or : any one condition should be true

PRACTICE QUESTION

Ask three numbers from the user and print the largest number

```python
a = float(input("Enter the first Number: "))
b= float(input("Enter the second Number: "))
c= float(input("Enter the third Number: "))

if a > b and a > c:
    print(a, "is the largest number")
elif b > a and b > c:
    print(b, "is the largest number")
else:
    print(c, "is the largest number")
```

```
Enter the first Number: 30
Enter the second Number: 12
Enter the third Number: 100
100.0 is the largest number
```

Nested If

If within if

```python
a = float(input("Enter the first Number: "))
b= float(input("Enter the second Number: "))
c= float(input("Enter the third Number: "))

if a > b:
    if a > c:
        print(a, "is the largest")
if b > a:
    if b > c:
        print(b, "is the largest")
else:
    print(c, "is the largest")
```

Practice Question

Ask password and email from the user and if they are correct then print successful login and even if one is wrong then print incorrect information

correct password : **12ab**

correct Email : **123@papersdock.com**

```python
Email = input("Enter the email: ")
password = input("Enter the password: ")
if Email == "123@papersdock.com" and password == "12ab":
    print("successful login")
else:
    print("Invalid Information")
```

```
Enter the email: 123@papersdock.com
Enter the password: 12ab
successful login
```