15-09-2025, Monday

WAP to check the given no. is prime or not

```
num = int(input())
if num > 1:
    for i in range(2, num, 1):
        if(num % i == 0):
            print("Not prime")
    else:
        print("Prime")
else:
    print("Not Prime")
```

⇒ WAP to check the given no is prime or not for range

```
num = int(input())                    # 7
count = 0
for i in range(2, num, 1):            # i = 2, 3, 4, 5, 6
    if(num%i == 0):                   # 7%2 == 0 False   # 7%3 == 0 False
        count = count + 1             # count = 0        # count = 0
    else:
        count = count
if(count == 0):                       o/p  Not Prime
    print("Prime no.")                     Prime no
else:
    print("Not prime")
```

⇒ Loop statements:

i) break (ii) continue (iii) pass

```
for i in range(1, 100, 1):            o/p 1
    if(i == 20):                          2
        break                             3
    else:                                 4
        print(i)                          5
                                          .
                                          .
                                          19
```

Break stops the execution by the given condition

(ii) Continue

```
for i in range(1, 10, 1):             o/p 1
    if(i == 5):                           2
        continue                          3
    else:                                 4
        print(i)                          6
                                          7
                                          8
                                          9
```

To skip the value given by condition

(iii) pass We don't have anything to write & continue the execution, use we pass

```
for i in range(1,10, 1):              o/p 1
    if(i == 6):                           2
        pass                              3
    else:                                 4
        print(i)                          5
                                          7
                                          8
                                          9
```

6 - skip

# while loop

Syntax: Initialization
while (condition):
    statement
    inc / dec

ex
```
s = "Python"
i = 0
while (i < len(s)):
    print(s[i])
    i = i+1          or # i += 1
```
o/p
P
y
t
h
o
n

⇒ WAP to print values divisible by 3 from 1 to 20
```
i = 1
while (i <= 20):
    if (i % 3 == 0):
        print(i)
    i += 1
```
o/p
3
6
9
12
15
18