Double-click (or enter) to edit

CONDITIONALS STATEMENTS(NESTED)

```
wear = input()
color = input()
if wear == "shirt" :
  if(color == "red") :
    print("red match with light pants")
  elif(color == "white") :
    print("white matches with dark pants")
  print("T-shirt macthes with jeans")
→ bwdkjbc
     vwhjvc
     T-shirt macthes with jeans
device = input()
price = int(input())
if(device.lower() == "laptop") :
  if(price >= 15000 and price <= 30000) :
    print("we have i3 i5 with 11th gen and amd dual core 4500")
  elif(price > 30000 and price <=70000) :
    print("we have 12th gen i5 and 13th gen i3, have ryzen with RTX also ")
  print("explore more in our shop")
→ hweghjbd
     12000
     explore more in our shop
LOOPS
```

```
start = 10;
while(start > 0) :
 print("hello world")
  start = start - 1
→ hello world
     hello world
    hello world
    hello world
    hello world
    hello world
    hello world
    hello world
    hello world
    hello world
for _ in range(10):
  print("hello world")
```

```
→ hello world
     hello world
# name = "Tanishak"
# for i in name:
   if(i == "a") :
      print("1", end="")
   else :
#
      print(i, end="")
name = "Tanishak"
i = 0
while(i < len(name)) :</pre>
 if(name[i] == "a") :
    print("1", end="")
  else :
    print(name[i], end="")
  i = i+1
→ T1nish1k
#prime or not
number = int(input("Enter a number: "))
val = True
# for i in range(2, number) : #go from 2 to number-1 by default
  if(number == 2) :
     print("prime")
  if(number % i == 0):
     val = False
     break
# if(val == True):
# print("prime")
# else :
# print("not prime")
while(i < number) :</pre>
  if(number % i == 0):
    val = False
    break
 i = i + 1
# if(number == 2) :
     print("prime")
elif(val) :
  print("Prime")
else :
  print("Not prime")
⇒ Enter a number: 10
     Not prime
#sum of numbers in a range
```

```
for i in range(1, 101) :
 sum = sum + i
print("sum of number in range is: ", sum)
⇒ sum of number in range is: 5050
#print even numbers
num = int(input("Enter a number: "))
for i in range(1, num+1) :
 if(i % 2 == 0) :
   print(i, end=" ")
→ Enter a number: 10
     2 4 6 8 10
#count number of digits in a number
number = 3458
count = 0
while(number > 0) :
 count = count + 1;
 number = number//10
print(count)
→ 4
#calculate factorial
fact = 1
number = 5
for i in range(1, number+1) :
 fact = fact * i
print(fact)
→ 120
#print multiplication table
number = 5;
for i in range(1, 11) :
  print(f"{number} * {i} = {number*i}")

→ 5 * 1 = 5

    5 * 2 = 10
    5 * 3 = 15
    5 * 4 = 20
    5 * 5 = 25
    5 * 6 = 30
    5 * 7 = 35
    5 * 8 = 40
    5 * 9 = 45
    5 * 10 = 50
import math
for i in range(2, 51):
   val = True
   for j in range(2, int(math.sqrt(i)) + 1):
       if i % j == 0:
           val = False
            break
   if val:
       print(i)
```

```
3
     5
     7
    11
     13
    17
    19
     23
     29
     31
     37
    41
     43
     47
my_string = "Tanishak"
length = len(my_string)
for i in range(length):
   print(my_string[length - i - 1], end="")
→ kahsinaT
#fibbonacci
a = 0
b = 1
for i in range(10) :
 print(a)
 a, b = b, b+a
→ Ø
     5
     8
     13
     21
     34
#fibbonacci
prev_val = 0
curr_val = 1
print(prev_val)
print(curr_val)
for i in range(0,8):
  updated_val = prev_val + curr_val
  print(updated_val),
 prev_val = curr_val
 curr_val = updated_val
    0
     1
     1
     2
     3
     8
     13
     21
```

VESTED LOOPS

WHILE LOOP

```
i = 6
while(i < 10) :
 i += 1
 print(i)
     9
     10
#countdown timer
i = 10
while(i > 0):
 print(i)
 i -= 1
→ 10
     9
     8
     7
    4
     3
     2
#sum of numbers
n = 10
sum = 0
while(n > 0):
 sum += n
 n -= 1;
print(sum)
```

```
#user_input
user_input = input()
while(user_input != "quite") :
    user_input = input("enter quite to exit")

    jbwjce
    enter quite to exitnwsdb hbc
    enter quite to exitquite
```

LIST COMPREHENSEN