Devin

Will it take your Job ?

First let us get a Job

2. a] req very clear + You know what to do

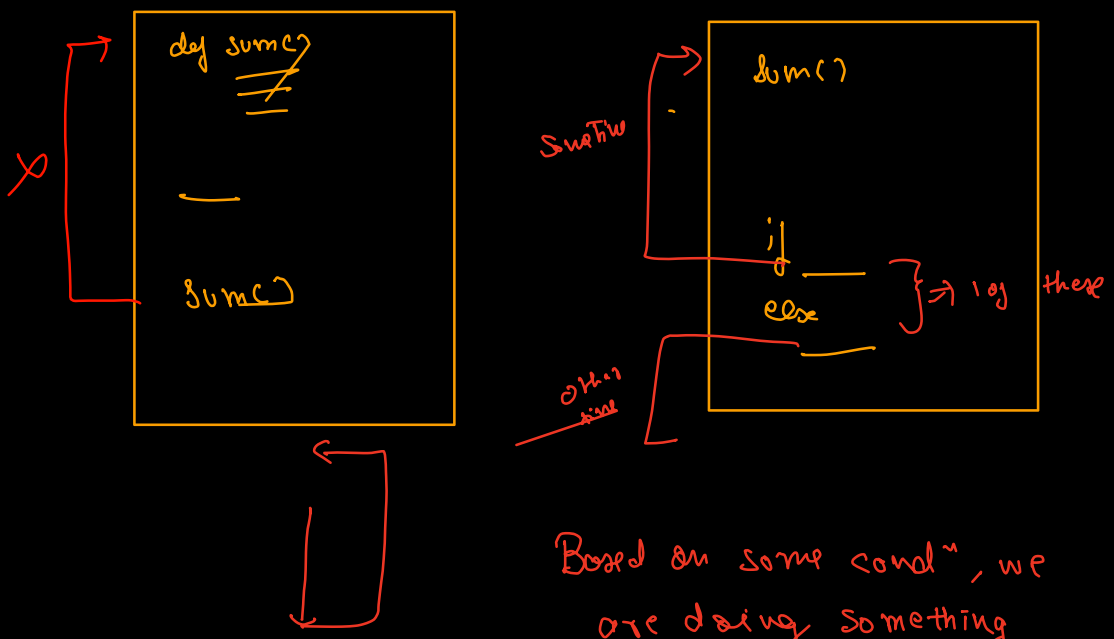
⇓

AI — Data entry
basic analytics
no domain Knowledge

★★ b) Proper Coding + req not clear
+ Complex Logic
+ System design

⇓

hype
⇒ AI software dev
{ tds } sql
+
Boilerplate + specific requirem
+ SDE3 / EM ★★

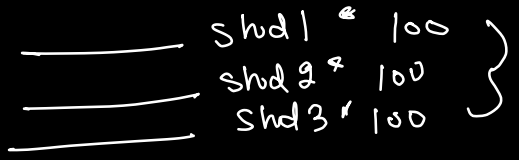

def sum()
sum()
sum()
if
else
log
these
other
Based on some cond", we
are doing something

Agenda for today

1. Loops / Iteration
   - → While
   - → For
2. Range
3. Some Questions

Need of loop? ⇒ To do repeated steps or task which are exactly same more than one time.

Std 1 = 53
std 2 = 55
std 3 = 59



The issue is that our code unnecessarily becomes long & complex.

⇒ Simple
⇒ As small as possible

We use loops if

1] we have to run a cell multiple times

Python have 2 loops

1. While
2. For

do...while

not in python

While Loop

Syntax :-

```
while condition :
    logic / What to do
    cond^n check

non-indented.
```

it doesn't end up a ∞ loop

So, make sure to double check & update our condition.

```
start = 0
end = 4
while start< end:
    print(start)
```

0 4

while start < end :

print (start)

0 < 4

start	end
0	4
0	4
0 < 4	

Another form of while loop:

```
start = 1
end = 2


while start < end and True :
    print(start)
    start = start+1
else:
    print("I am out")
```

```
1
I am out
```

When my loop all iteration are not finished, then else block won't get executed

Break statement

Ideally, loop only closes itself when the condition becomes false

⇓

else gets activated

But But But, we can also end our loop before it has all iteration exhausted

For that we have a key word break

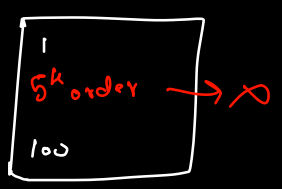
```
start = -2
end = 2


while start < end :
    if(start ==0):
        start = 5
        break
    print ( 100/start)
    start = start+1
else:
    print("I am out")



start,end
```

```
-50.0
-100.0
(5, 2)
```

```
start = -2
end = 2


while start < end :
    if(start ==0):
        break
    print ( 100/start)
    start = start+1
else:
    print("I am out")



start,end
```

```
-50.0
-100.0
(0, 2)
```

Continue Statement :-




```
for ( . . ):
    if notpaid[i]:
        break
```

In this case we might just want to avoid this particular order but process all other orders of keywords.

Enter "Continue":

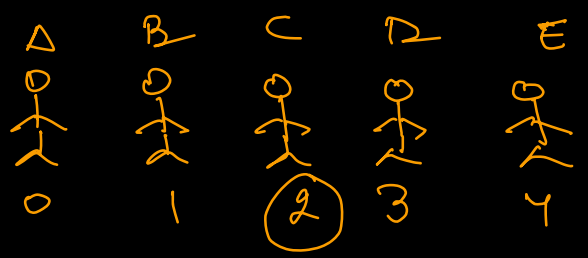
```
start = -2
end = 2


while start < end :
    if(start ==0):
        print("Start is 0 here")
        #break
        start = start + 1
        continue
    print ( 100/start)
    start = start+1
else:
    print("I am out")
```

very very important

For loop

Like while, it is another loop.

Helps to run statements iteratively on collection/sequence

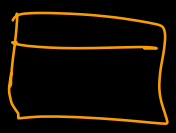


posn

2

3

Name/Student



l = [A, B, C, D, E]
0 1 2 3 4

l[0] A

& while i < 5:

—— l[i] ⇒ marks

for stud. in l:

—— stud.

For loop handles increment after a single iteration gets completed

Syntax :-

```
for some_var in collection:
    # loop body
    ...
    ...
    ...
    ...

...
...
```

← normal code flow

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Range_fn

range ⇒ inbuilt fn in python

returns us a range object

it is used to generate a sequence of numbers in form of a list

Syntax

```
range(start, stop, step)
```

Parameter Values

Parameter	Description
start	Optional. An integer number specifying at which position to start. Default is 0
stop	Required. An integer number specifying at which position to stop (not included).
step	Optional. An integer number specifying the incrementation. Default is 1