Day 8

Loops

If a software developer develops a software module for payroll processing that needs to compute the salaries and the bonus of all the employees.

Software module for payroll processing

Salary
Bonus
Total

Employee - 1

Employee - 2

Employee - 3

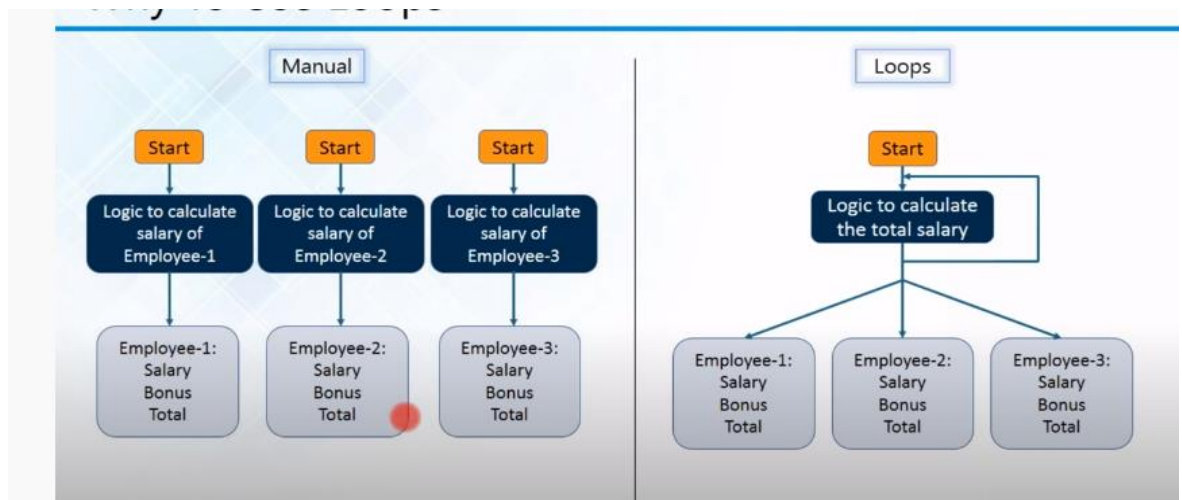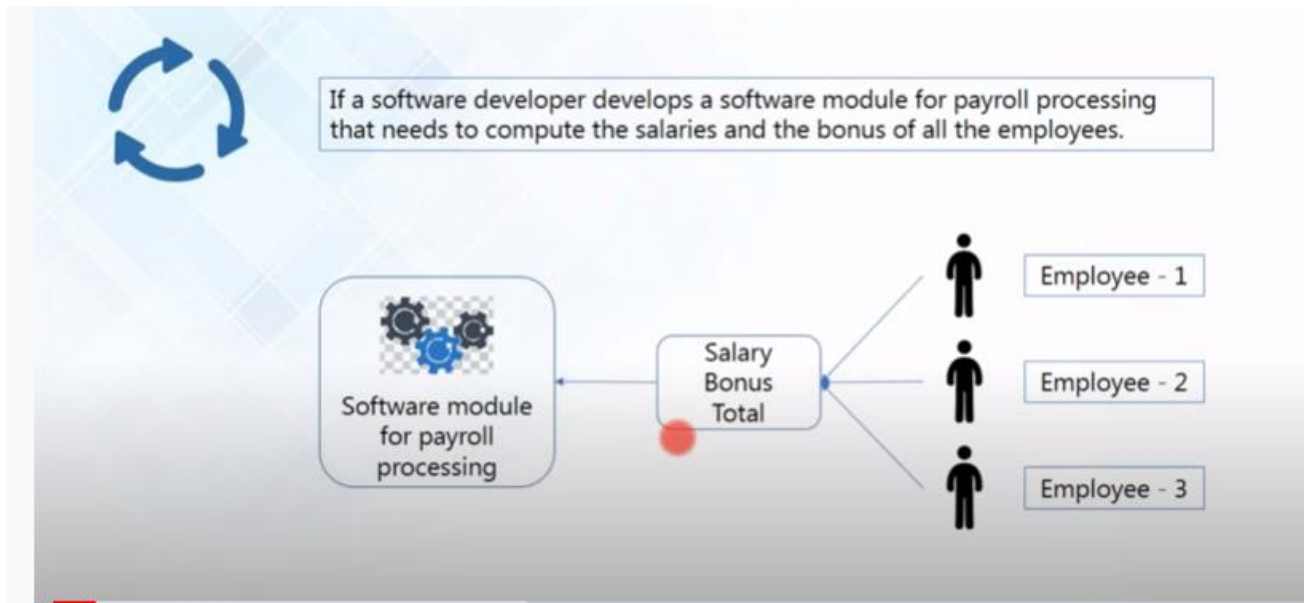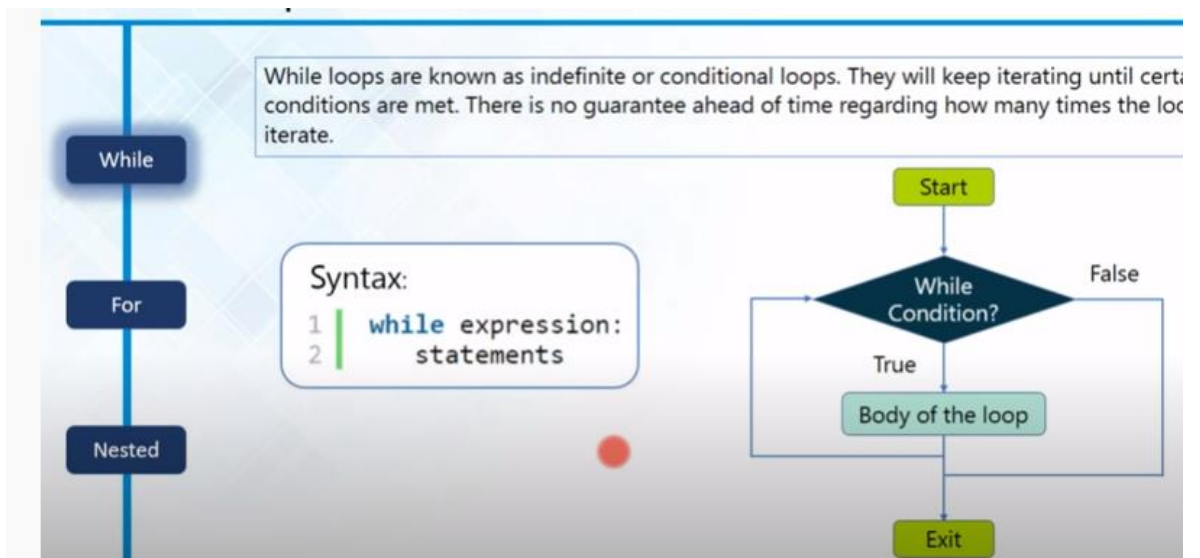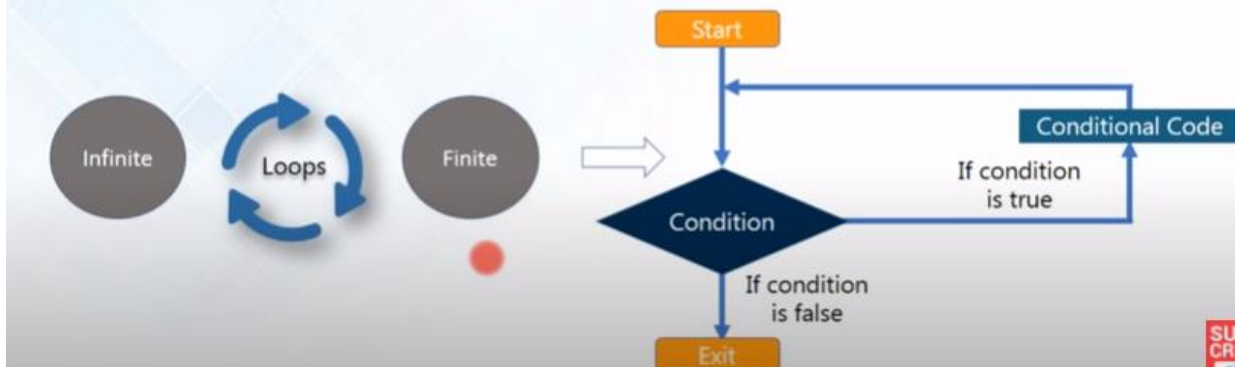| Manual			Loops
Start	Start	Start	Start
Logic to calculate salary of Employee-1	Logic to calculate salary of Employee-2	Logic to calculate salary of Employee-3	Logic to calculate the total salary
Employee-1: Salary Bonus Total	Employee-2: Salary Bonus Total	Employee-3: Salary Bonus Total	Employee-1: Salary Bonus Total / Employee-2: Salary Bonus Total / Employee-3: Salary Bonus Total

☐ Loops allows the execution of a statement or a group of statement multiple times.

☐ In order to enter the loop there are certain conditions defined in the beginning.

☐ Once the condition becomes false the loop stops and the control moves out of the loop.

Start

Conditional Code

Infinite   Loops   Finite

If condition
is true

Condition

If condition
is false

Exit

While loops are known as indefinite or conditional loops. They will keep iterating until certa
conditions are met. There is no guarantee ahead of time regarding how many times the loo
iterate.

While

Start

Syntax:

```
1  while expression:
2      statements
```

While
Condition?

False

True

For

Body of the loop

Nested

Exit

#print numbers from 1-n

'''

n=int(input("enter no."))

count=1

while count<=n:

   print(count)

   count = count +1

print("good bye")

'''

```
#to print the sum of 1-n numbers

n=int(input("enter no."))

count=1

sum=0

while count<=10:

    sum= sum + count

    count = count +1

print(sum)


H.W.

#to print numbers divisible by 3 in the range 1-100

loop

check the condition with if

while:

    if:

        statements print

    else:

        pass
```