Day 5

Date 11 June 2024

Daily Report

Today's training was based on Conditional Statements in Python and Iterations in Python.

Today's topic covered

Conditional Statements

There are 4 type of Conditional Statements.

1. if statement

```
if(condition is true):
# statement
```

2. if else statement

```
if(condition is true):
# statement
else:
# statement
```

- 3. if elif statement
- 4. if elif else statement

```
if(condition):
#statement
elif(conditon):
#statement
.
.
else:
#statement
```

5. nested if

```
if (condition):
if(condtion):
.
```

Loops in Python

Loops help to execute the block of code repeatedly.

There are mainly two type of loops in Python:-

- 1. for loop:- This loop is used for sequences or any other iterable item. objects that are iterable list,tuple, tuple, strings, dictionary.
 - o using Range

```
for num in range(start,end):
    o for list,tuple or string

for x in list,tuple or string:
    o for dictionary

for key in dictionary:
    # it will print all keys sequentially

for key,value in dict_name.items():
    # it will print key and value both
    o using in

for x in set,list,tuple:
```

2. while loop: It is used for repeatedly execution of single or grouped statements. This loop will iterate until given condition is no longer met.

```
while(condition):
```

statemets

Break, Continue and Pass

- Break:- Break out of the current closest enclosing loop.
- Continue:- Goes to the top of the closest enclosing loop.
- Pass:- do nothing

Some Question for practice at home.

Start coding or generate with AI.