Programming Fundamentals using Python2

Lecture

- statements
- branching
- looping
- coding problems



Statements

Instructions to the Python Virtual Machine to do something.

declarations,
assignments,
methods calls
input/output statements,
classes and objects
etc.

Conditional Statements

Single If

```
1 marks = 90
2
3 if marks > 80 :
4    print("lets party")
```

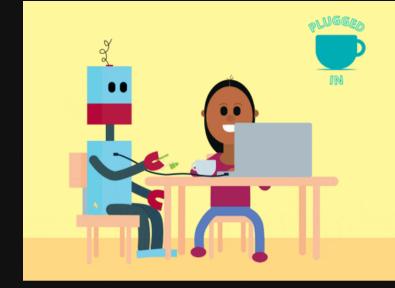


Conditional Statements

If-else block



Conditional Statements



If-else-if-else block

```
1 marks = 90
2
3 if marks > 80 :
4          print("lets party")
5 elif marks > 70:
6          print("great job")
7 else:
8          print("work hard next time")
```

Mutiple if blocks?

In line if-else block?

Loops

Do something again & again!



```
1 //Init
2
3 while condition is True:
4
5    //execute some stuff
6
7    //update
```

While Loop



While Loop Example

For Loop



Code Demo!

Number Sum

Find the sum of numbers from 1 to N

Example

N = 4

Output

10

Number Sum-II

Take input N, followed by N numbers find their sum.

Example

N = 4

Output

10

Prime Number

Given a Number, check if it is Prime or Not!

Input

11

Output

Yes

Sum the Digits

Given a Number, print the sum of its digits.

Input

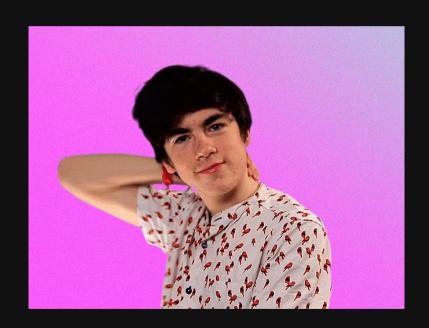
11

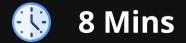
Output

2



Time To Try!





Stair Pattern

*



*

Sum the digits of a given number.

Sum the digits of a given number.

Code Repository

https://github.com/prateek27/python-nov-21