

## Literate Programming

- programming along with documentation

In [1]: 1 9+9

Out[1]: 18

## Technical Documentation

- paragraphs,hyperlinks,images
- html code

## Markdown Basics

# heading1

## heading2

### heading3

#### heading4

#### *line5*

#### *heading6*

##### plain text

## font styles

*italic text* **bold text**

***SRK Institute of Technology*** located at *Enikepadu* in **Vijayawada**

**line spacing using html break tag**

I am the student of *SRK IT*  
located at ...

## Topic

- line by line content
  - sub line
- first line
  - subline
    - sub sub line
    - fourth
- second line
  - hfjkasdfoidsoifjkd

## hyper links

- [text to display \(url\)](#)
- [Search Engine \(https://www.google.com/\)](https://www.google.com/)
- [youtube \(https://www.youtube.com/\)](https://www.youtube.com/)
- [SRK IT \(http://srkit.in/\)](http://srkit.in/)

In [ ]:

1

## executing html code in markdown

welcome to python workshop

colored text

## Working with Markdown

### Displaying image



## Python

- It is a general purpose, high level and interpreted programming language
  - General Purpose
    - used for multiple purposes such as scientific computation, mbl application development, system s/w development etc.
  - High level and
    - user understandable language
  - Interpreted
    - gives us the line by line execution
- **features**

1. simplicity
    - easy to learn and simple to code
    - seems to be English
  2. sensitive to both case and space
    - case sensitive and space sensitive
  3. syntax free
    - doesn't require modules/libraries to execute
  4. dynamically typed
    - there is no type declaration of var, functions etc
    - it gets while execution dynamically
  5. semi-object oriented
    - it is neither procedural nor object oriented
    - it supports oops concepts
  6. portable
    - platform independent 1. CMD, IDLE, py charm, Anaconda3  
B. pydroid (mobile app)
- **Applications**
    - it is the building block of all current running technologies such as Cloud Computing, Robotics, IOT , Machine Learning, Data Analysis, Artificial Intelligence & Web development

```
In [3]: 1 9+7
```

```
Out[3]: 16
```

### **welcome message**

print() is the pre-defined function used to display/print the output to user

```
In [4]: 1 print('Welcome to python workshop')
```

```
Welcome to python workshop
```

```
In [5]: 1 print("SRK Institute of Technology")
```

```
SRK Institute of Technology
```

```
In [10]: 1 print(''multiple quotes'')
```

```
multiple quotes
```

```
In [7]: 1 print(8) # value doesn't require quotation
```

```
8
```

```
In [8]: 1 print(90.67)
```

90.67

### ***print()***

- prints the data
  1. message
    - should be enclosed in quotations
  2. value
    - need not

```
In [13]: 1 # highlight the sub text in the message
2 # I am from 'SRKIT' located at..
3 print("I am 'siva sai' from SRKIT")
```

I am 'siva sai' from SRKIT

```
In [14]: 1 PRINT('jsdfjdfjkjk')
```

...

## **welcome to python**

```
In [15]: 1 print('started with single and ended with double')
```

Input In [15]

```
print('started with single and ended with double')
```

^

**SyntaxError:** EOL while scanning string literal

### **Types of Errors**

- an invalid statement in the programming called as error
- 3types of errors
  1. syntax error
    - error related to syntax
  2. value error and
    - type error,name error,value error, file not found error,key error etc..
  3. indentation error
    - error related to space

In [16]: 1 7+5

Out[16]: 12

In [17]: 1 "siva"+"harish"

Out[17]: 'sivaharish'

In [18]: 1 9+'name'

...

In [19]: 1 9-4

...

In [20]: 1 'lastname'-'firstname'

...

In [21]: 1 5\*4

Out[21]: 20

In [22]: 1 5\*s

-----  
**NameError**

Traceback (most recent call last)

Input In [22], in <cell line: 1>()  
-----> 1 5\*s

**NameError**: name 's' is not defined

In [23]: 1 5\*"h"

Out[23]: 'hhhhh'

In [26]: 1 # print your name character wise  
2 print("student")

...

```
In [39]: 1 print('s\nt\nu\nd\ne\nn\nt') # using sep
          2 print("student",sep=',',end='.')
          3 print(*'student',sep=',')
          4 print(9,4,6,7,sep=',')
```

```
s
t
u
d
e
n
t
student.s,t,u,d,e,n,t
9,4,6,7
```

```
In [35]: 1 print(*'hello',sep=',') # seperator operator
```

```
h,e,l,l,o
```

```
In [32]: 1 # camma separated chars of your name
          2 print(*'college',sep="@",end='.')
```

```
...
```

```
In [33]: 1 print(*'srkit',sep="," ,end='.')
```

```
...
```

```
In [ ]: 1
```