

### Print statement

```
print(text) # prints some text
to the console.
```

#### - Example :

```
print( 'Hello World') # prints
Hello World
```

### Comments

```
# This is a comment.
```

### Variables

```
variable_name = value
```

#### - Example :

```
age = 21
gpa = 3.2
name = "Jack"
online = True
```

### Conditionals

```
if condition:
```

```
...
```

```
else:
```

```
...
```

```
if condition:
```

```
...
```

```
elif condition:
```

```
...
```

```
else:
```

```
...
```

#### - Example :

```
num = 4

if num % 2 == 0:
    print('Even')
else:
    print('Odd')
```

### Loops

```
while condition:
```

```
...
```

```
for x in range(start, stop):
```

```
...
```

#### - Examples :

```
for i in range(1, 5):
```

```
    print(i, end=' ')
    # prints 1 2 3 4
```

```
i = 0
```

```
while i < 5:
```

```
    print(i)
    i = i + 1
```

### Functions/Methods

```
def function(parameters):
```

```
    return ...
```

#### - Example :

```
a = int(input ('Enter a: '))
b = int(input ('Enter b: '))
```

```
def multiply(a, b):
```

```
    return a * b
```

```
print(multiply(a, b)) # print
the result.
```

### Exception Handling

```
try:
```

```
    # Try some code
```

```
except exception:
```

```
    # Handle an exception
```

```
finally:
```

```
    # Do some clean up
```

#### - Example :

```
try:
```

```
    num = 1 / 0
```

```
except ZeroDivisionError:
```

```
    print('You cannot divide by ze
ro!')
```

### Lists

```
list_name = [value, value, value]
```

#### - Example :

```
fruits = ['Apple', 'Orange', 'Ba
nana']
```

```
length = len(fruits) # get the len
gth of the list
```

```
print(fruits[0]) # prints Apple
```

```
print(fruits[1]) # prints Orange
```

```
print(fruits[2]) # prints Banana
```

```
print(length) # prints 3
```

### Operators

Arithmetic operators : +, -, \*, /, %, \*\*

Comparison operators : ==, !=, <, >, <=, >=

Logical operators : **and**, **or**, **not**

Assignment operators : =, +=, -=, \*=, /=, %=