

## Operators

$10+18*2-9/3$

 43.0

$10//4$

 2

$10//4.0$

 2.0

$10.5//4$

 2.0

$4^2<<3+48//24$

 68

$-5//2//2$

$10>7==7<12$

 True

$10>7==8<12$

 False

$(10>7)==(8<12)$

 True

$(10>7)==8<12$

 False

$10>(7==8)<12$

 True

$10>(7==8)<-1$

 False

$10>7==(8<12)$

 False

$10>1==(8<12)$

 True

`bool(8)`

 True


8==True

 False

## Unicode Representation

```
alphaNumeric_string = "abcdefghijklmnopqrstuvwxyz0123456789"
```

```
for c in alphaNumeric_string:  
    print("character: ", c)  
    print("unicode value: ", ord(c))
```



```
character: a  
unicode value: 97  
character: b  
unicode value: 98  
character: c  
unicode value: 99  
character: d  
unicode value: 100  
character: e  
unicode value: 101  
character: f  
unicode value: 102  
character: g  
unicode value: 103  
character: h  
unicode value: 104  
character: x  
unicode value: 120  
character: y  
unicode value: 121  
character: z  
unicode value: 122  
character: A  
unicode value: 65  
character: B  
unicode value: 66  
character: C  
unicode value: 67  
character: D  
unicode value: 68  
character: E  
unicode value: 69  
character: F  
unicode value: 70  
character: G  
unicode value: 71  
character: H  
unicode value: 72  
character: X  
unicode value: 88  
character: Y  
unicode value: 89  
character: Z  
unicode value: 90  
character: 0  
unicode value: 48  
character: 1  
unicode value: 49  
character: 2  
unicode value: 50  
character: 3  
unicode value: 51  
character: 4  
unicode value: 52  
character: 5  
unicode value: 53  
character: 6
```

```

english = "VIRAT KOHLI"

tamil = "விராட் கோலி"

hindi = "विराट कोहली"

chinese = "维拉·科利"

print("English Unicode")
for c in english:
    print("Character: ", c)
    print("Unicode: ", ord(c))

print("Tamil Unicode")
for c in tamil:
    print("Character: ", c)
    print("Unicode: ", ord(c))

print("Hindi Unicode")
for c in hindi:
    print("Character: ", c)
    print("Unicode: ", ord(c))

print("Chinese Unicode")
for c in chinese:
    print("Character: ", c)
    print("Unicode: ", ord(c))

```

#### English Unicode

```

Character: V
Unicode: 86
Character: I
Unicode: 73
Character: R
Unicode: 82
Character: A
Unicode: 65
Character: T
Unicode: 84
Character:
Unicode: 32
Character: K
Unicode: 75
Character: O
Unicode: 79
Character: H
Unicode: 72
Character: L
Unicode: 76
Character: I
Unicode: 73
Tamil Unicode
Character: வ
Unicode: 2997
Character: ி
Unicode: 3007
Character: ர
Unicode: 2992
Character: ா
Unicode: 3006
Character: ல
Unicode: 2975
Character: ு
Unicode: 3021
Character:
Unicode: 32
Character: க
Unicode: 2965
Character: ே
Unicode: 3019

```

```

Character: व
Unicode: 2994
Character: ि
Unicode: 3007
Hindi Unicode
Character: ळ
Unicode: 2357
Character: ऴ
Unicode: 2367
Character: ळ
Unicode: 2352
Character: ऴ
Unicode: 2366
Character: ळ
Unicode: 2335
Character:

```

```
name = "Venky"
```

```

for c in name:
    print("character: ",c)
    print("unicode value: ", ord(c))
    print("hex value: ",hex(ord(c)))

```

```

⇒ character: V
   unicode value: 86
   hex value: 0x56
   character: e
   unicode value: 101
   hex value: 0x65
   character: n
   unicode value: 110
   hex value: 0x6e
   character: k
   unicode value: 107
   hex value: 0x6b
   character: y
   unicode value: 121
   hex value: 0x79

```

```
print(int('\x61'))
```

```

⇒ -----
ValueError                                Traceback (most recent call last)
<ipython-input-24-799c1a5d9e66> in <cell line: 1>()
----> 1 print(int('\x61'))

ValueError: invalid literal for int() with base 10: 'a'

```

```
print('\x65')
```

```
⇒ e
```

## ▼ Conditional Statements

if

elif

else

```

if <condition>:
    # code if the condition is satisfied

```

```
rupees = int(input("Money from father: "))

if rupees>=80:
    print("Buy Diary Milk Silk")
    print("Buy Milk for remaining rupees")

print("Condition is failed, comes out if statement")
```

```
➞ Money from father: 10
    Condition is failed, comes out if statement
```

```
gate_score = int(input("Enter your gate marks: "))

if gate_score>=40:
    print("You have cleared the GATE Exam")
else:
    print("Its Unfortunate this year, better luck next time")

print("comes out of if and else")
```

```
➞ Enter your gate marks: 50
    You have cleared the GATE Exam
    comes out of if and else
```

```
gate_score = int(input("Enter your gate marks: "))

if gate_score>=40:
    print("You have cleared the GATE Exam")
else:
    print("Its Unfortunate this year, better luck next time")

print("comes out of if and else")
```

```
➞ Enter your gate marks: 35
    Its Unfortunate this year, better luck next time
    comes out of if and else
```

```
marks = 92

if marks>=90:
    print("Grade S")
elif 80<=marks<90:
    print("Grade A")
elif 70<=marks<80:
    print("Grade B")
else:
    print("Grade D")
```

```
➞ Grade S
```

```
marks = 86

if marks>=90:
    print("Grade S")
elif 80<=marks<90:
    print("Grade A")
elif 70<=marks<80:
    print("Grade B")
else:
    print("Grade D")
```

```
➞ Grade A
```

```
marks = 72
```

```
if marks>=90:
    print("Grade S")
elif 80<=marks<90:
    print("Grade A")
elif 70<=marks<80:
    print("Grade B")
else:
    print("Grade D")
```

↩ Grade B

```
marks = 24
```

```
if marks>=90:
    print("Grade S")
elif 80<=marks<90:
    print("Grade A")
elif 70<=marks<80:
    print("Grade B")
else:
    print("Grade D")
```

↩ Grade D

```
marks = 60
```

```
if marks>=90:
    print("Grade S")
elif marks>=80:
    print("Grade A")
    print('1')
    print('2')
elif marks>=60:
    print("Grade B")
else:
    print("Grade D")
```

```
print("came out of conditional statement")
```

↩ Grade B  
came out of conditional statement

## Nested if

```
scores = int(input("Enter your batting score: "))
```

```
if scores>=90:
    if scores>100:
        print("Wow, thats a fabulous performance")
        print("Man of the match to u")
    else:
        print("Unfortunate, you missed a century")
else:
    print("Score less than 90")
```



```
-----  
KeyboardInterrupt                                Traceback (most recent call last)  
<ipython-input-48-38531a6ce3ed> in <cell line: 1>()  
----> 1 scores = int(input("Enter your batting score: "))  
      2  
      3 if scores>=90:  
      4     if scores>100:  
      5         print("Wow, thats a fabulous performance")
```

1 frames

```
/usr/local/lib/python3.10/dist-packages/ipykernel/kernelbase.py in _input_request(self, prompt, ident,  
parent, password)  
    893     except KeyboardInterrupt:  
    894         # re-raise KeyboardInterrupt, to truncate traceback  
--> 895         raise KeyboardInterrupt("Interrupted by user") from None  
    896     except Exception as e:  
    897         self.log.warning("Invalid Message:", exc_info=True)
```

KeyboardInterrupt: Interrupted by user