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#### Printing
print("Hello Kurdistan!") # Hello Kurdistan!
print("Hello"+"Kurdistan") # HelloKurdistan
print("Hello", "Kurdistan!") # Hello Kurdistan!
print('Hello Kurdistan!') # Hello Kurdistan!
print('Hello'+'Kurdistan!') #HelloKurdistan!
print('Hello', 'Kurdistan!') #Hello Kurdistan!

print('Hello\nKurdistan!') # The Kurdistan will be in a new line
print('Hello\tKurdistan!') # Hello Kurdistan!

print("Hello")
print("Kurdistan!")
print("Hello",end='') # Will not going to a new line
print("Kurdistan!")

## Mathematical operations
print(14+8) #22
print(5/7) # 0.7142857142857143
print(3**2) # power, 9

##### Variables
x=2
y=6
print(x+y) # 8
print(x/y) # 0.3333333333333333
z=x*y
print(z) # 12
print(x, " * ",y, " = ",z) # 2 * 6 = 12

##### Print by format()
print("{} * {} = {}".format(x,y,z)) # 2 * 6 = 12
print("{} + {} = {}".format(x,y,x+y)) # 2 + 6 = 8

##### Float
num1 = 4.3
num2 = 6
print(num1+num2) #10.3
print(num1,num2) # 4.3 6

### String
name = "Alan"
print(name)
print("Your name is "+name) # Your name is Alan

##### print string and float
grade = 76.8
print("Your name is {} and your grade={}".format(name, grade)) # Your name is Alan and
your grade= 76.8
print("Your name is %s and your grade is %d" %(name, grade)) # Your name is Alan and
your grade is 76
print("Your name is %s and your grade is %f" %(name, grade)) #Your name is Alan and your
grade is 76.800000
print("Your name is %s and your grade is %.2f" %(name, grade)) #Your name is Alan and
your grade is 76.80

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##### IF Statement
x1 = 4
if x1>0:
    print(x1, " is Positive.")

if x1 == 4:
    print(x1, " is Four.")
```

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##### Input values
d = input("Enter number: ")
d=int(d)
if d>0:
    print(d,"is positive")
elif d<0:
    print(d, "is Negative")
else:
    print(d, "is Zero")
```

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### While loop
aa=1
while aa<19:
    print("Hello",aa)
    aa+=1
```

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bb=1
while True:
    print("Hello", bb)
    bb += 1
    if bb==10:
        break
```

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### For Loop
for c in range(5):
    print("For {}".format(c))

for c in range(1,5,2):
    print("For {}".format(c))

for c in range(1,5):
    print("For {}".format(c))
```

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## Lists or arrays
A=[21,2,-3,4,65]
for r in A:
    print(r)

for r in range(5):
    print(A[r])

for e in range(5):
    for g in range(5):
        print("*",end='')
    print('\n')

for e in range(5):
    for g in range(e):
        print("*",end='')
    print('\n')
```

```
##### Functions
def myFunction():
    number1 = 3
    number2 = 8
    print(number1*number2)

myFunction()
def myFunction(number1,number2):
    print(number1*number2)

myFunction(5,7)

def add(number1,number2):
    return number1+number2

print(add(1,3))

myAdd=add(4,6)
print(myAdd)
```