Day3: ¶

Functions()
Arguments
global ,local
Recursion
return concept
Random

In [1]:

```
#https://www.hackerrank.com/challenges/write-a-function/problem
```

In [ ]:

```
From a function's perspective:

A parameter is the variable listed inside the parentheses in the function definition.

An argument is the value that is sent to the function when it is called.
```

In [ ]:

```
Information can be passed into functions as arguments.

Arguments are specified after the function name, inside the parentheses. You can add as
many arguments as you want, just separate them with a comma.
```

In [30]:

```
def calculate_sum(data1, data2): #funtion definition
    #All the statements in the block of code must have the same level of indentation
    result_sum=data1+data2
    return result_sum

result=calculate_sum(10,20) #function call
print(result)
```

```
30
```

In [86]:

```
from random import randint as n
x=1
y=5
for i in range(5):
    print(n(x,y))
```

```
2
4
3
4
3
```

In [82]:

```python
a=10
b=20
s=a+b
k=a*s
print(k)
l=b/a
print(l)
```

```
300
2.0
```

In [ ]:

```python
simantic error and syntatic error
```

In [21]:

```python
def sum(b,c):
    s=b+c
    return s


a=10
b=20
c=sum(a,b)
print(c)
```

```
30
10
```

In [26]:

```python
#without return
def subtract(b,c):
    d=b-c
    print(d)
a=10
b=20
subtract(b,a)
```

```
10
```

In [27]:

```python
#use of function inside print
def subtract(b,c):
    d=b-c
    return d
a=10
b=20
print(subtract(b,a))
```

```
10
```

In [28]:

```python
def sum(b,c):
    s=b+c
    return s


a=10
b=20

if sum(a,b)>100:
    print("yes")
else:
    print("No")
```

No

In [29]:

```python
def repeat(a):
    a+=1
    if a>10:
        return a
    else:
        return repeat(a)

a=0
c=repeat(a)
print(c)
```

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In [37]:

```python
#positional arg
def sum(a,b,c):
    return a+b+c
a,b=10,20
print(sum(a,b,0))
```

30

In [43]:

```python
#variable arg
def sum(a,b,*args):
    c=a+b
    for i in args:
        c+=i
    return c
a,b=10,20
print(sum(a,b,25,35))
```

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In [51]:

```python
#defualt
def sum(b,a,c=10):
    c=a+b+c

    return c
a,b=10,20
c=30
print(sum(a,b))
```

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In [59]:

```python
#keyword
def sum(a,b,c):
    d=a+b
    e=b-c

    return d
a,b=10,20
c=30
print(sum(a=b,b=c,c=a))
```

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In [68]:

```python
a=10
def check(a):
    b=10

print(b)
```

20

In [ ]:

```python
import random
import itertools
```

In [87]:

```python
#help("random")
```

In [ ]:

```python
1)x%4:
    x%100!=0 or x%400==0
```