

# ASSIGNMENT -1

*Submitted by,  
SUMEKA A  
(192IT245)*

## Python code

### 1)Variables :

```
print("hello world")

name="Jaisri"

print(name) # Jaisri

print("Hello "+name) # Hello Jaisri

name="kiruba"

print("Hello "+name) # Hello kiruba

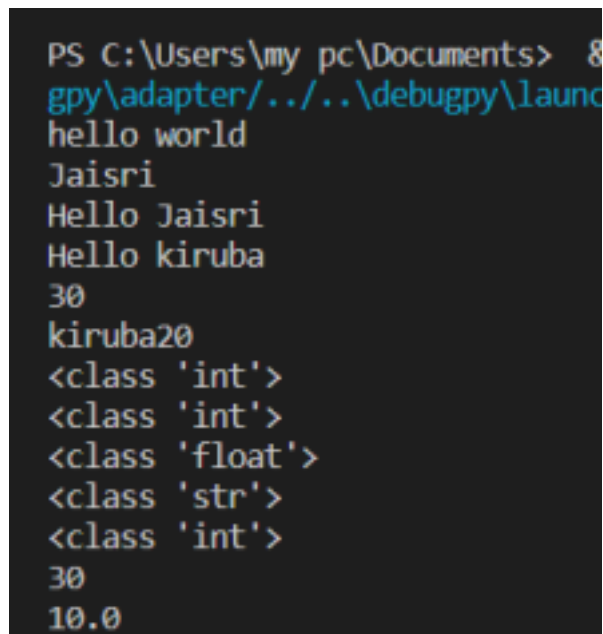
a = 10
b = 20
c=30.5
print(a+b)

#print(name+b) - Type-Error
#typecast to remove the above error
```

```
print(name + str(b)) #kiruba+20 = kiruba20
print(type(a))
print(type(b))
print(type(c))
print(type(name))
```

```
print(type(a+b))
print(a+b)
print(float(a))
```

Output:



```
PS C:\Users\my pc\Documents> &
python\adapter/../../debugpy\launc
hello world
Jaisri
Hello Jaisri
Hello kiruba
30
kiruba20
<class 'int'>
<class 'int'>
<class 'float'>
<class 'str'>
<class 'int'>
30
10.0
```

## 2)Array:

```
#lists
names = ["Jaisri","Kiruba","pooja","ponpriya","sumeka"]
print(names)
```

```
print(names[1])
```

```
names[0]="Jayashree"
print(names)
```

```
#tuples
```

```

names=("Jaisri","Kiruba","pooja","ponpriya","sumeka")
print(names[0])
#names[0]="Jeevitha" - Does not support

#set
names={"Jaisri","Kiruba","pooja","ponpriya","sumeka"}
#print(names[0])-not subscriptable

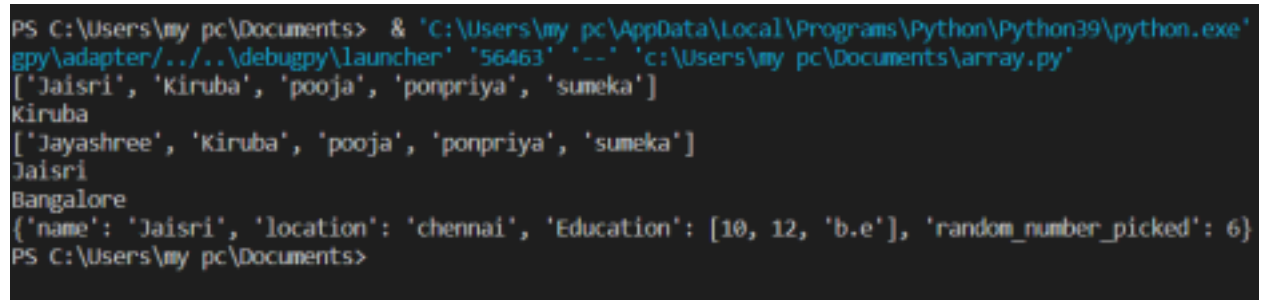
#Mapping data type-dictionaries

# key -> value
# name -> jaisri
# location -> bangalore
# education -> [10,12,B.E]

student1={
    "name":"Jaisri",
    "location" : "Bangalore",
    "Education": [10,12,"b.e"],
    "random_number_picked":6
}
print(student1["location"])
student1["location"]="chennai"
print(student1)

```

## Output:



```

PS C:\Users\my pc\Documents> & 'C:\Users\my pc\AppData\Local\Programs\Python\Python39\python.exe'
gpy\adapter/../../debugpy\launcher' '56463' '--' 'c:\Users\my pc\Documents\array.py'
['Jaisri', 'Kiruba', 'pooja', 'ponpriya', 'sumeka']
Kiruba
['Jayashree', 'Kiruba', 'pooja', 'ponpriya', 'sumeka']
Jaisri
Bangalore
{'name': 'Jaisri', 'location': 'chennai', 'Education': [10, 12, 'b.e'], 'random_number_picked': 6}
PS C:\Users\my pc\Documents>

```

## 3) List:

```
random_number = [10,20,30,40,50,60,70]
```

```
print(len(random_number))
length_of_array=len(random_number)
print(random_number[length_of_array-1])

print(random_number[2:4])
```

## Output:

```
PS C:\Users\my pc\Documents> & 'C:\
gpy\adapter\..\..\debugpy\launcher'
7
70
[30, 40]
PS C:\Users\my pc\Documents>
```

## 4)Data:

```
print("enter your name")
name=input()

print("hello "+name+" glad you are here!")
```

## OUTPUT:

```
PS C:\Users\my pc\Documents> &
'..\..\debugpy\launcher' '56605'
enter your name
Jaisri
hello Jaisri glad you are here!
PS C:\Users\my pc\Documents> █
```

## 5)Loops:

```
names = ["jaisri","kiruba","sumeka"]
```

```

for person in names:
    print("hello "+person)

for i in range(1,11):
    print(i)

a=[10,20,30,40,50]
b=[10,20,30,40,50]
print(a+b)

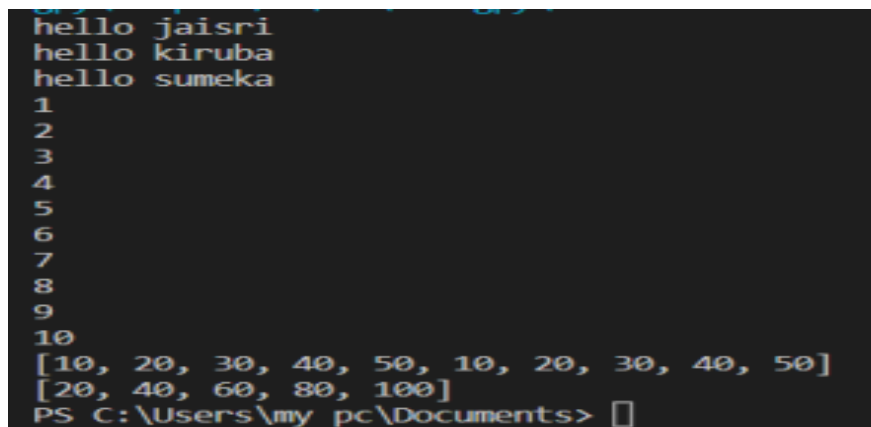
additive=[]
if len(a) == len(b):
    for x in range(len(a)):
        additive.append(a[x] + b[x])
    print(additive)

else:

printf("The arrays are of different length")

```

## OUTPUT:



```

hello jaisri
hello kiruba
hello sumeka
1
2
3
4
5
6
7
8
9
10
[10, 20, 30, 40, 50, 10, 20, 30, 40, 50]
[20, 40, 60, 80, 100]
PS C:\Users\my pc\Documents>

```

## 6) Control statement:

```

print("enter a")

```

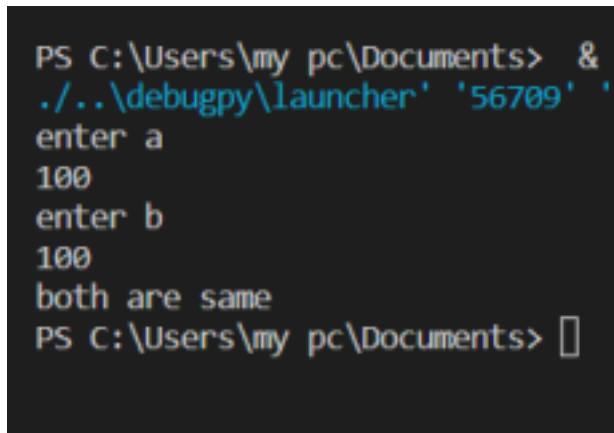
```
a=input()

print("enter b")
b=input()

#a=10
#b=20

if a>b:
    print("a is grater than b")
    print("by "+str(a-b))
elif b>a:
    print("b is greater than a")
else :
    print("both are same")
```

## Output:



```
PS C:\Users\my pc\Documents> &
./..\.debugpy\launcher' 56709'
enter a
100
enter b
100
both are same
PS C:\Users\my pc\Documents> 
```

## 7)Function:

```
def addTwo(x,y):
    return x+y

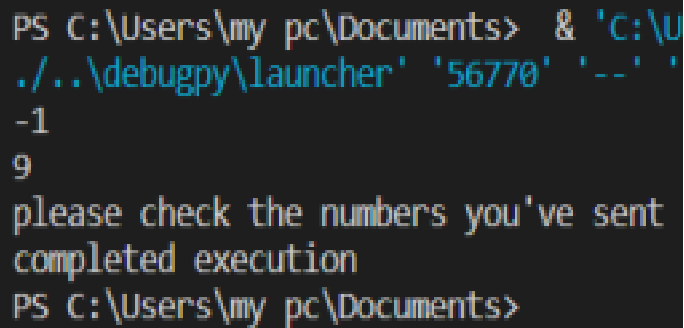
def subtractTwo(x,y):
    return x-y

def divideTwo(x,y):
    response = None
    try:
```

```
        response = x/y
    except:
        response="please check the numbers you've sent"
    return response

print(substractTwo(4,5))
print(addTwo(4,5))
print(divideTwo(10,0))
print("completed execution")
```

Output:



```
PS C:\Users\my pc\Documents> & 'C:\U
./..\debugpy\launcher' '56770' '--' '
-1
9
please check the numbers you've sent
completed execution
PS C:\Users\my pc\Documents>
```