29/7/25
Day 17

Coding Workshop - 1 in Python

Date: ../../..
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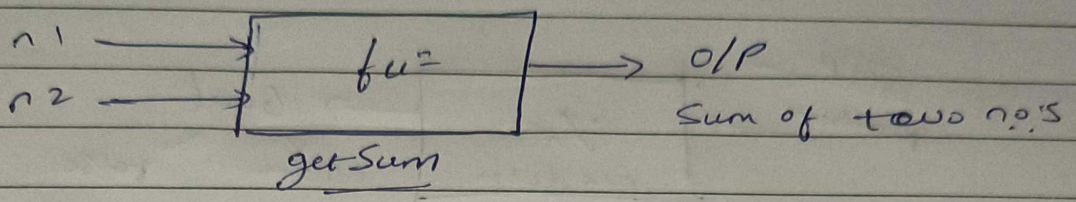
Simple 20 programs

1) Function getSum of getSum of numbers

I/P



Syntax / Pseudocode

Int getSum (number1, number2) → Int.

Int → for C/Java. → return type

Int → for Python → return type

return (number1 + number2)

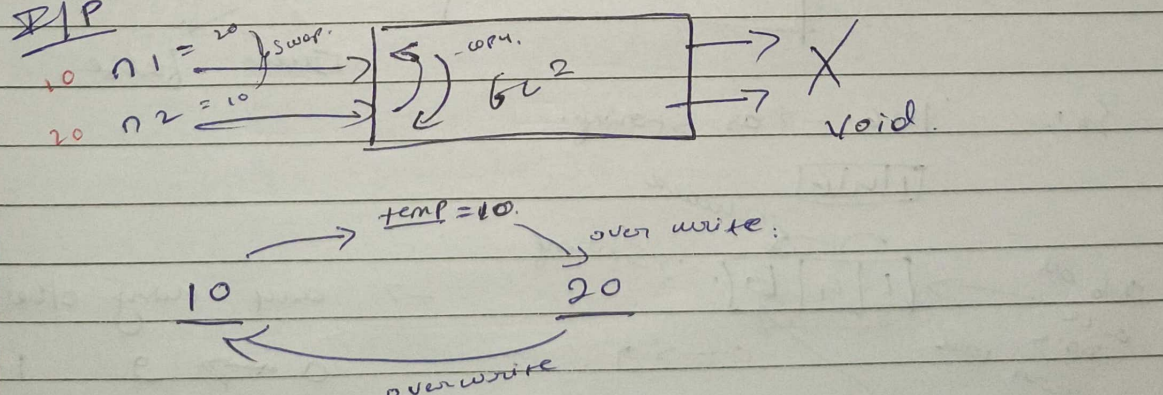
Sol?

```
def getSum (number1, number2)

    return  number1 + number2
```

2) Function SwapNumbers to swap two Variable Values

I/P

Sol?

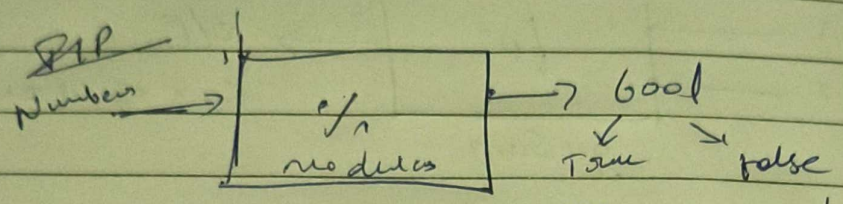


Immutable :- (Int, float, string, tuple)

You can't update their values. Every time you update, new space is allocated.

3) Function swapNumbers to Sw.

3) Function is Even to return true if number is even otherwise false

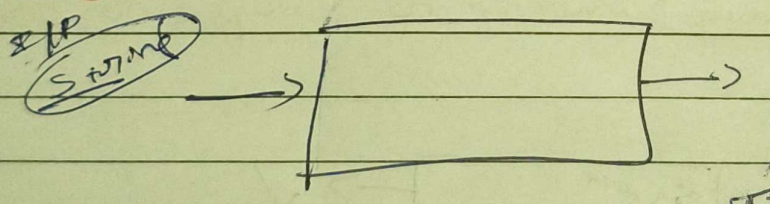


2) 10 (5

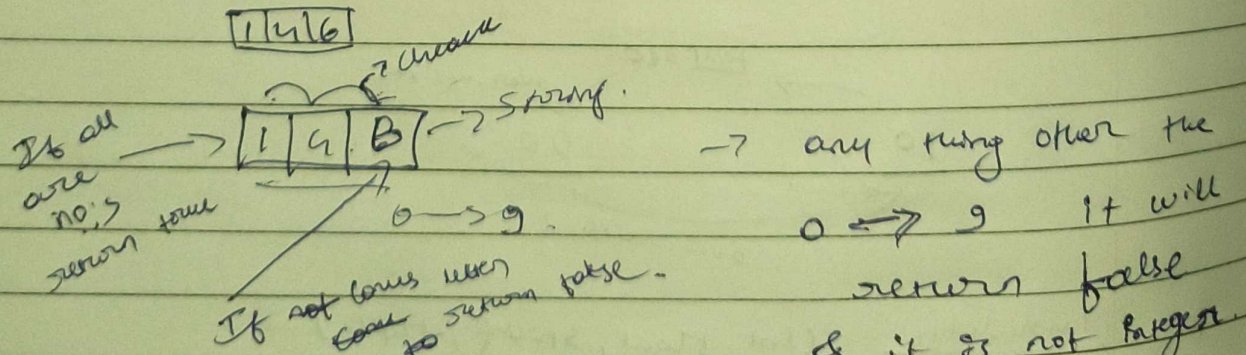
10 → Remainder → %

```
if (n %. 2 ⟹ 0):
    true ⟵ o/p -
else:
    false. ⟵ o/p
```

4) Function is Digit is Number to return true if it is a digit.



Ex: '146 → as string.



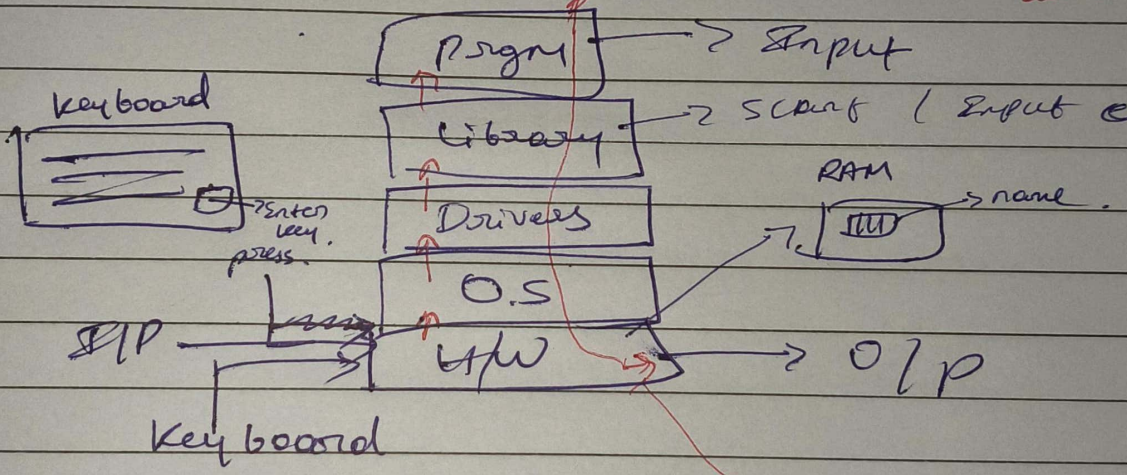
In the array.

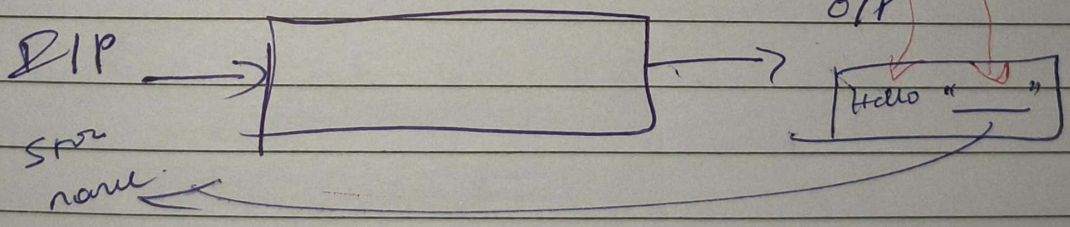
Str[index] >= '0' and <= 'g' → ASCII

If it was written in 0 → Int.

5) ~~Function to print A~~

5) Function Simple Greetings to accept name as input & print Simple greeting NamasKara name





Welcome | 1_sumoftwonumbers.py ● | 2_swaptwonumbers.py | 3_isEven.p

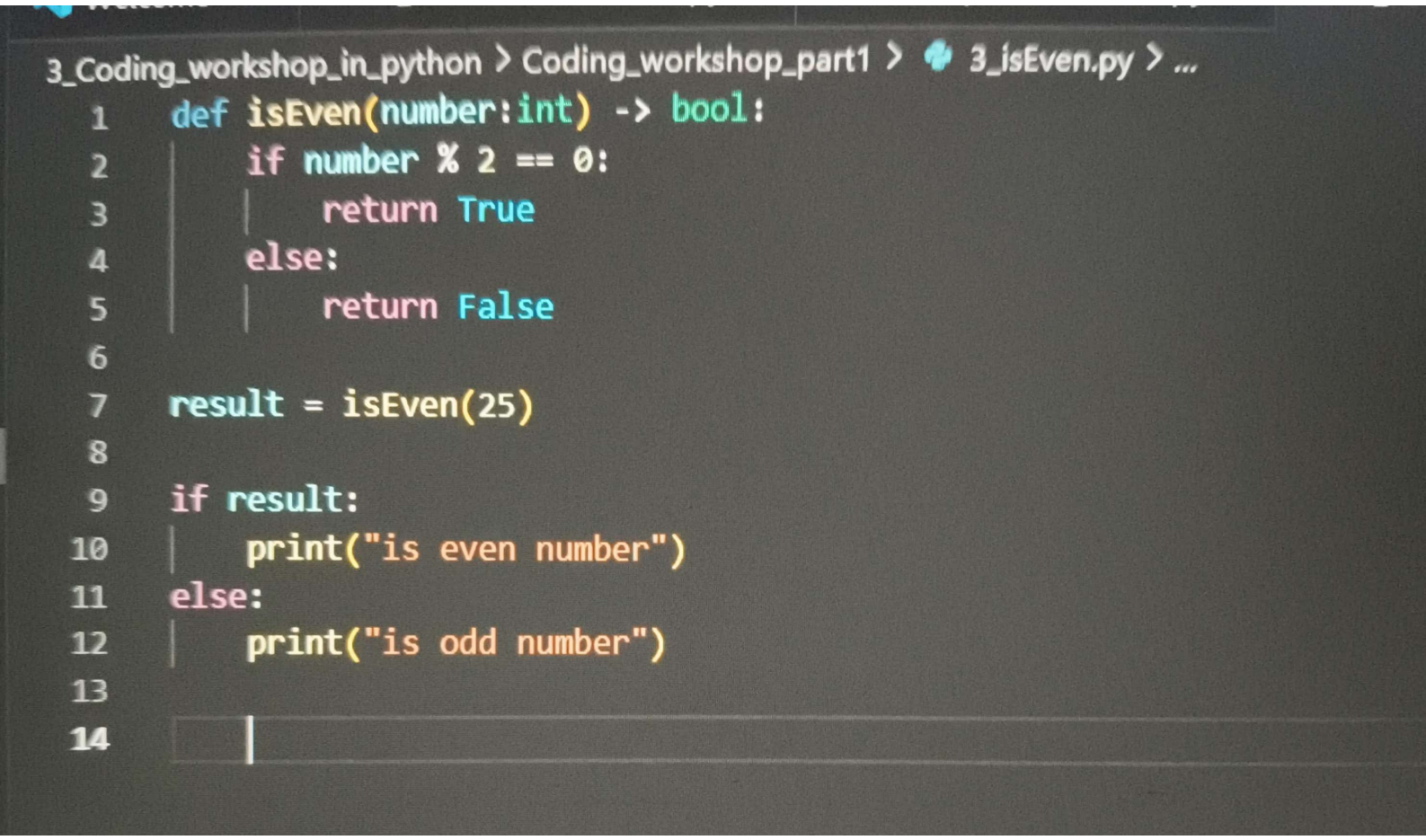
3_Coding_workshop_in_python > Coding_workshop_part1 > 1_sumoftwonumbers.py > ...

```python
def getSum(number1, number2):
    return number1 + number2

#invocation/call he function
#polymorphisum : one function work for different data types
sum = getSum(24,28)
print("sum of two numbers is",sum)

sum2 = getSum(2.5,2.6)
print("sum of two numbers is",sum2)

sum3 = getSum("hello"," raju")
print("sum of two numbers is",sum3)


# using return type -> int
def getIntegerSum(number1:int , number2:int) -> int:
    answer = number1 + number2
    return answer

sumint = getIntegerSum(1.2,2.4)
print("sum of two numbers is", sumint)

sumint1 = getIntegerSum(100,2.4)
print("sum of two numbers is", sumint1)

```

Welcome | 1_sumoftwonumbers.py | 2_swaptwonumbers.py | 3_isEven.py

3_Coding_workshop_in_python > Coding_workshop_part1 > 2_swaptwonumbers.py > ...

```python
def swap(number1:int, number2:int):
    temp = number1
    number1 = number2
    number2 = temp
    return number1,number2

iteam1 = 10
iteam2 = 20

print(f"before : value of iteam1 is {iteam1} and iteam2 is {iteam2}")

iteam1, iteam2 = swap(iteam1 , iteam2)

print(f"after : value of iteam1 is {iteam1} and iteam2 is {iteam2}")



#simple swap
def swapsimple(item1:int,item2:int):

    return item2,item1

number1 = 10
number2 = 20

print(f"before : value of number1 is {number1} and number2 is {number2}")

number1, number2 = swapsimple(number1 , number2)
print(f"after : value of number1 is {number1} and number2 is {number2}")

```


3_Coding_workshop_in_python > Coding_workshop_part1 > 3_isEven.py > ...
def isEven(number:int) -> bool:
if number % 2 == 0:
return True
else:
return False
result = isEven(25)
if result:
print("is even number")
else:
print("is odd number")

Welcome | 1_sumoftwonumbers.py | 2_swaptwonumbers.py | 3_isEven.py | 4_isN

3_Coding_workshop_in_python > Coding_workshop_part1 > 4_isNumber.py > ...

```python
def isNumber(number):
    isInteger = True

    for eachCharacter in number:
        if eachCharacter >= '0' and eachCharacter <= '9' :
            continue
        else:
            isInteger = False
            break
    return isInteger

result = isNumber("123B")

if result:
    print("yes it is an integer")

else:
    print(" it is not an integer")

#simple way

def isNumber2(number2):
    # check if any of the character falls outside the range o to 9, if yes return fals
    for eachchar in number2:
        if eachchar < '0' or eachchar > '9' :

            return False
    # all the characters are between 0 to 9 hence return true
    return True

result2 = isNumber2("12a3B")

if result2:
    print("yes it is an integer")

else:
    print(" it is not an integer")
```

Welcome | 1_sumoftwonumbers.py | 2_swaptwonumbers.py | 3_isEv

3_Coding_workshop_in_python > Coding_workshop_part1 > 5_Greeting.py > ...

```
1  def simpleGreeting():
2
3      name = input("enter your name: ")
4      age = input("Eneter your age : ")
5      print(f"Hello! {name}")
6      print(f"your are {age} years old now")
7
8  simpleGreeting()
9
```