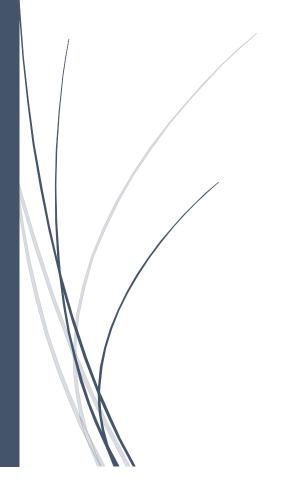
[Date]

Python Practical File

Full Time Diploma in Computer Engineering 5th Semester



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Calculate the multiplication and sum of two numbers

Code

```
num1 = int(input("Enter num1: "))
num2= int(input("Enter num2: "))

mul = num1*num2
if mul <= 1000:
    print(num1, " * ", num2, " = ", mul)
else:
    print(num1, " + ", num2, " = ", num1+num2)</pre>
```

```
File Edit Shell Debug Options Window Help

Python 3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit ( AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex1_multiplication_and_su m_two_numbers.py
Enter num1: 80
Enter num2: 12
80 * 12 = 960

>>>

= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex1_multiplication_and_su m_two_numbers.py
Enter num1: 90
Enter num1: 90
Enter num2: 70
90 + 70 = 160
```

Print the sum of the current number and the previous number

Code:

```
prev_num = 0
rangelen = range(10)
currentnum=0
for i in rangelen:
    currentnum = prev_num + i
    print("Previous number is ", prev_num, " currentnum is ", currentnum)
    prev_num = currentnum
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex2_print_sum_of_current_num_and_prev_num.py
Previous number is 0 currentnum is 0
Previous number is 0 currentnum is 1
Previous number is 1 currentnum is 3
Previous number is 3 currentnum is 6
Previous number is 6 currentnum is 10
Previous number is 10 currentnum is 15
Previous number is 15 currentnum is 21
Previous number is 21 currentnum is 28
Previous number is 28 currentnum is 36
Previous number is 36 currentnum is 45
>>>
```

Print characters from a string that are present at an even index number

Code:

```
user_string = input("Enter string: ")
length = len(user_string)
range_len = range(0,length,2)
for i in range_len:
    print(user_string[i])
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex3_print_chars_from_stri
ng_at_even_index_num.py
Enter string: ABHISHEK
A
H
S
E
```

Remove first n characters from a string

Code:

```
user_string = input("Enter string: ")
num_of_chars = int(input("Enter number of characters to remove from beginning:
"))
new_string = user_string[num_of_chars:-1]
print("Your string after removing first ", num_of_chars, " is: ", new_string)
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex4_remove_first_n_chars_from_string.py
Enter string: Hello, Python! I am a Developer.
Enter number of characters to remove from beginning: 10
Your string after removing first 10 is: hon! I am a Developer
```

Check if the first and last number of a list is the same

Code:

```
num = int(input("Enter number of elements to add in list: "))
rangeLen = range(num)
user_list = []
for i in rangeLen:
    print("Enter element no.", i+1, " : ", end="")
    user_num = int(input())
    user_list.append(user_num)
if user_list[0] == user_list[-1]:
    print("First and last numbers are same.")
else:
    print("First and last numbers are not same.")
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex5 check first and last
num of list same.py
Enter number of elements to add in list: 5
Enter element no. 1 : 32
Enter element no. 2
Enter element no. 3 : 67
Enter element no. 4 : 12
Enter element no. 5 : 14
First and last numbers are not same.
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex5 check first and last
num of list same.py
Enter number of elements to add in list: 5
Enter element no. 1 : 32
Enter element no. 2 : 45
Enter element no. 3 : 67
Enter element no. 4 : 12
Enter element no. 5 : 32
First and last numbers are same.
```

Practiaal 6

Display numbers divisible by 5 from a list

Code:

```
user_list = []
length = int(input("Enter number of elements to be entered in list: "))
rangeLen = range(length)
for i in rangeLen:
    print("Enter element no.", i, " : ", end="")
    num = int(input())
    user_list.append(num)

for i in user_list:
    if i%5==0:
        print(i," is divisible by 5.")
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex6_display_nums_divisible_by_5_from_list.py
Enter number of elements to be entered in list: 5
Enter element no. 0 : 123
Enter element no. 1 : 145
Enter element no. 2 : 23670
Enter element no. 3 : 234
Enter element no. 4 : 5675
145 is divisible by 5.
23670 is divisible by 5.
5675 is divisible by 5.
```

Return the count of a given substring from a string

Code:

string_to_examin = "Hello, World! I am a Python Developer. I am a freelancer. Also work on web development. Hello, Development"

```
to_find_string = "Hello"
```

print(to_find_string, " occured ", string_to_examin.count(to_find_string), " times
in ", string to examin)

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex7_return_count_of_give_substring_from_string.py
Hello occured 2 times in Hello, World! I am a Python Developer. I am a freel ancer. Also work on web development. Hello, Development
```

```
Print the following pattern
```

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

Code:

```
num= int(input("Enter number for triangle: "))
heightRangeLen = range(num)
for i in heightRangeLen:
    lengthRangelen = range(i+1)
    for j in lengthRangelen:
        print(i+1, end=" ")
    print()
```

```
=== RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex8_print_pattern.py ==
Enter number for triangle: 5
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

Check Palindrome Number

Code:

```
user_num = input("Enter number: ")

if user_num == user_num[::-1]:
    print(user_num, " is a palindrome number.")

else:
    print(user_num," is not a palindrome number.")
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex9_check_palindrome_num.

py
Enter number: 12521
12521 is a palindrome number.

= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex9_check_palindrome_num.

py
Enter number: 12345
12345 is not a palindrome number.
```

Create a new list from a two list using the following condition

• new list should contain odd numbers from the first list and even numbers from the second list.

Code:

```
list1= [23,44,567,67,88,987]
list2 = [24, 45, 89, 90, 33]
new_list = []
for i in list1:
    if i%2==1:
        new_list.append(i)

for i in list2:
    if i%2==0:
        new_list.append(i)
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex10_merge_2_list_odd_fro m_first_even_from_second.py
New list is: [23, 567, 67, 987, 24, 90]
```

Write a Program to extract each digit from an integer in the reverse order.

Code:

```
num = int(input("Enter integer: "))
new_num=0
store_orginal_num = num
while num>0:
    new_num = new_num*10 + num%10
    num = num // 10
print("Digits of ", store_orginal_num, " extracted in reverse order is: ", new_num)
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex11_extract_digit_from_i
nt_in_reverse_order.py
Enter integer: 12345
Digits of 12345 extracted in reverse order is: 54321
```

Calculate income tax for the given income by adhering to the below rules

Taxable Income	Rate (in %)
First \$10,000	0
Next \$10,000	10
The remaining	20

Code:

```
Taxable income
                     Rate
10,000
                   0
next 10,000
                    10
remaining
                    20
** ** **
income tax = 0
your income = float(input("Your income is $ "))
income division = []
if your income<10000:
  income_tax=0
elif your income < 20000:
  income division.append(10000)
  income division.append(your income-10000)
```

```
else:
    income_division.append(10000)
    income_division.append(10000)
    income_division.append(your_income-20000)

length = len(income_division)

rangeLen = range(length)

for i in rangeLen:
    if i == 1:
        income_tax += income_division[i]*0.1
    elif i > 1:
        income_tax += income_division[i]*0.2

print("Your income tax is: $", income_tax, "/-")
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex12_calculate_income_tax
.py
Your income is $ 50000000
Your income tax is: $ 9997000.0 /-
```

Print multiplication table form 1 to 10

Code:

```
table_of = range(1,11)
table_numbers = range(1,11)
for i in table_of:
  print("Table of ", i)
  for j in table_numbers:
    print(i, " x ", j, " = ", i*j)
  print()
```

```
RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex13_multiplication_table
    _1_to_10.py
Table of 1
1    x    1 = 1
1    x    2 = 2
1    x    3 = 3
1    x    4 = 4
1    x    5 = 5
1    x    6 = 6
1    x    7 = 7
1    x    8 = 8
1    x    9 = 9
1    x    10 = 10
Table of 2
2    x    1 = 2
2    x    2 = 4
2    x    3 = 6
2    x    4 = 8
2    x    5 = 10
2    x    6 = 12
2    x    7 = 14
2    x    8 = 16
2    x    9 = 18
2    x    10 = 20
```

```
Table of 3
3
     1 = 3
  Х
     2
3
  х
3
     3 =
          9
  Х
3
  х
     4
          12
3
    5 =
          15
  Х
3
     6 =
  Х
          18
     7 =
3
          21
  Х
3
  x 8
       = 24
3 \times 9 = 27
3 \times 10 = 30
Table of
        4
       = 4
  Х
     1
     2 = 8
4
  х
4
  х
     3
       =
          12
     4 =
4
          16
  Х
4
    5 =
         20
  Х
     6 = 24
4
  Х
4
  х
     7
       =
          28
     8 = 32
4
  Х
4 \times 9 = 36
4 \times 10 = 40
Table of 5
5 x
    1 =
          5
5
     2
  х
          10
5
     3 =
          15
  х
5
     4 =
           20
  Х
5
     5 =
  Х
          25
5
  x 6 =
          30
5
  x 7 = 35
5
  x 8 = 40
5
     9 = 45
  Х
5
    10 = 50
  Х
```

```
Table of 6
6
     1
       = 6
  Х
     2
       = 12
6
  Х
    3
       =
6
 Х
          18
6
    4 =
 X
          24
6 \times 5 =
          30
6
  Х
    6 =
          36
    7 =
6
          42
 X
6 x
    8 = 48
6 x
    9 = 54
6 x
    10 = 60
Table of
        7
7 x
    1 = 7
    2 =
          14
  х
    3 =
  х
          21
7
  Х
     4 =
          28
7
  х
    5 =
          35
7
    6 =
  х
          42
7
    7 =
          49
  Х
7
  x = 8 =
          56
7 \times 9 =
          63
7 \times 10 = 70
Table of
       8
    1
       = 8
8 x
8
  х
    2 = 16
8
     3 =
  Х
          24
8
    4 =
          32
  х
    5 =
8
  Х
          40
  x 6 = 48
8
8
     7 = 56
  х
8
    8 =
  х
          64
8
  x 9 = 72
8
  x 10 = 80
```

```
Table of 9
9
  Х
    1 = 9
9 x
    2 = 18
9
     3
          27
  х
       =
9
  x 4 =
          36
9 x
    5 =
          45
9 x
    6 = 54
9
  х
     7
          63
9
    8 =
          72
  Х
9 \times 9 = 81
9 x
    10 = 90
Table of
       10
10 x 1
        =
           10
      2
10
   х
           20
     3
10
           30
   Х
10 x
     4
           40
     5 =
10
           50
   Х
10 x
     6
           60
10 x
     7 =
           70
10 \times 8 = 80
      9 = 90
10 x
10 \times 10 = 100
```

Print downward Half-Pyramid Pattern with Star (asterisk)

```
* * * * * *

* * * *

* * *

* *
```

Code:

```
length_of_triangle_height = int(input("Enter height of triangle: "))
order_of_height = range(length_of_triangle_height,0,-1)
for i in order_of_height:
    elements_range = range(i)
    for j in elements_range:
        print("*",end=" ")
    print()
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex14_half_pyramid_inverte
d.py
Enter height of triangle: 5
* * * * * *
* * * *
* * *
* *
```

Write a function called exponent(base, exp) that returns an int value of base raises to the power of exp.

Code:

```
def exponent(base, exp):
    return base ** exp
base = float(input("base= "))
exp = float(input("exponent= "))
print(base, " ^ ", exp, " = ", exponent(base, exp))
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\lab\ex15_exponent_function.py
base= 4
exponent= 5
4.0 ^ 5.0 = 1024.0
```

Write a program to create a function that takes two arguments, name and age, and print their value.

Code:

```
def function(name, age):
    print("name is: ", name)
    print("age is: ", age)

function("John","20")
```

```
= RESTART: C:\Use
ate_function.py
name is: John
age is: 20
```

Write a program to create function func1() to accept a variable length of arguments and print their value.

Note: Create a function in such a way that we can pass any number of arguments to this function, and the function should process them and display each argument's value.

Code:

```
def func1(*args):
    print("sum",args, " is: ", sum(args))

func1(20,30,40)

func1(10,30,50,60,100)
```

```
= RESTART: C:\Users\uday0\OneDrive\D
iabl_number_args.py
sum (20, 30, 40) is: 90
sum (10, 30, 50, 60, 100) is: 250
```

Write a program to create function calculation() such that it can accept two variables and calculate addition and subtraction. Also, it must return both addition and subtraction in a single return call

Code:

```
def calculation(num1,num2):
    return num1+num2, num1-num2

x = float(input("x = "))
y = float(input("y = "))
result = calculation(x,y)
print("x + y = ", result[0])
print("x - y = ", result[1])
```

```
= RESTART: C:\Users\uday0\Or
urn_multiple_values.py
x = 17866437423
y = 28520759751
x + y = 46387197174.0
x - y = -10654322328.0
```

Write a program to create a function show_employee() using the following conditions.

- It should accept the employee's name and salary and display both.
- If the salary is missing in the function call then assign default value 9000 to salary

Code:

```
def show_employee(name, salary=9000):
    print("Employee name: ", name)
    print("Employee salary: ", salary)

name = input("Enter name: ")

salary = int(input("Enter salary: "))

print("\nPassing name only:-")

show_employee(name)

print("\nPassing name and salary")

show_employee(name, salary)
```

```
= RESTART: C:\Users\uday0\Or
ault_arg.py
Enter name: Rohan
Enter salary: 4000
Passing name only:-
Employee name: Rohan
Employee salary: 9000
Passing name and salary
Employee name: Rohan
Employee salary: 4000
```

Create an inner function to calculate the addition in the following way

- Create an outer function that will accept two parameters, a and b
- Create an inner function inside an outer function that will calculate the addition of a and b
- At last, an outer function will add 5 into addition and return it

Code:

```
def calculation(a,b):
    result = 0
    def addition():
        return a+b
    result += addition()
    result += 5
    return result
print(calculation(3,5))
```

```
= RESTART: C:\U
er_function.py
13
```

Write a program to create a recursive function to calculate the sum of numbers from 0 to 10.

Code:

```
def sumNumbers(n):
    if n==0:
        return 0
    else:
        return n+sumNumbers(n-1)
print(sumNumbers(10))
```

```
= RESTART: C:
ursive.py
55
```

Assign a different name to function and call it through the new name

Below is the function display_student(name, age). Assign a new name show_tudent(name, age) to it and call it using the new name.

Code:

```
def display_student(name, age):
    print("Student name is: ", name)
    print("Student age is: ", age)

show_student = display_student
show_student("Rohan",18)
```

```
= RESTART: C:\Users\uday0\
_name_to_func.py
Student name is: Rohan
Student age is: 18
```

Generate a Python list of all the even numbers between 4 to 30

Code:

```
def even_numbers_4_to_30():
    return list(range(4,30,2))

print("List is: ", even_numbers_4_to_30())
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\Python\lab
n_nos_bw_4_and_30.py
List is: [4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28]
```

Find the largest item from a given list

Code:

```
myList = [4,6,5,8,80,90,10,3,2]
print("Largest item in the list: ", max(myList))
```

```
= RESTART: C:\Users\uday0\OneDri
gest_of_list.py
Largest item in the list: 90
```

Write a program that defines a function count_lower_upper() that accepts a string and calculates the number of uppercase and lowercase alphabets in it. It should return these values as a dictionary. Call this function for some sample strings.

Code:

```
def count_lower_upper(userstring):
  record = {"lower":0, "upper":0}
  characterRange = list(range(65,91)) + list(range(97,123))
  for i in userstring:
    if ord(i) in characterRange:
       if i.islower():
          record["lower"]+=1
       elif i.isupper():
          record["upper"]+=1
  return record
while True:
  user = input("Enter String: ")
  print(count_lower_upper(user))
```

```
= RESTART: C:\Users\uday0\OneDrive\I
ingLowerandUpper.py
Enter String: 123#thesunofthewest
{'lower': 15, 'upper': 0}
Enter String: Hel10
{'lower': 1, 'upper': 1}
Enter String: •
```

Write a program that defines a function compute() that calculates the value of n + nn + nnn + nnnn, where n is digit received by the function. Test the function for digits 4 and 7.

Code:

```
def compute(n):
    return n * (1+11+111+1111)
print(compute(4))
print(compute(7))
```

```
= RESTART: C:\Use
te_function.py
4936
8638
```

Write a program that defines a function create_array() to create and return a 3D array whose dimensions are passed to the function. Also initialize each element of this array to a value passed to the function.

Code:

```
def create_array(dims,values):
  1=0
  array = []
  if len(values)==dims[0]*dims[1]*dims[2]:
    for i in range(dims[0]):
       subarray=[]
       for j in range(dims[1]):
         subsubarray=[]
         for k in range(dims[2]):
            subsubarray.append(values[1])
            1+=1
         subarray.append(subsubarray)
       array.append(subarray)
  return array
```

```
aList = []
for i in range(3*8*3):
    aList.append(i)
print(create_array((3,8,3), aList))
```

```
= RESTART: C:\Users\uday0\OneDrive\Desktop\College\Py thon\lab\1_09_2023\q3_create_3d_array_and_initialize_and_return.py
[[[0, 1, 2], [3, 4, 5], [6, 7, 8], [9, 10, 11], [12, 13, 14], [15, 16, 17], [18, 19, 20], [21, 22, 23]], [24, 25, 26], [27, 28, 29], [30, 31, 32], [33, 34, 35], [36, 37, 38], [39, 40, 41], [42, 43, 44], [45, 46, 47]], [[48, 49, 50], [51, 52, 53], [54, 55, 56], [57, 58, 59], [60, 61, 62], [63, 64, 65], [66, 67, 68], [69, 70, 71]]]
```

Write a program that defines a function create_list() to create and return a list which is an intersection of two lists passed to it.

Code:

```
def create_array(list1,list2):
    list3=[]
    for i in list1:
        if i in list2:
            list3.append(i)
        return list3
print(create_array([3, 2, 5, 2, 8, 8, 8, 7, 4, 2],[8, 1, 7, 7, 1, 8, 5, 4, 2, 6]))
```

```
= RESTART: C:\Users\uday0\OneDrive
thon\lab\1_09_2023\q4_create_ret_]
_two_lists.py
[2, 5, 2, 8, 8, 8, 7, 4, 2]
```

Write a program that defines a function sanitize_list() to remove all duplicate entries from the list that it receives.

Code:

```
def sanitize_list(givenList):
    newList = []
    for i in set(givenList):
        newList.append(i)
    return newList
print(sanitize_list([8, 8, 6, 4, 1, 6, 1, 5, 8, 5]))
```

```
= RESTART: C:\Users\ud
ython\lab\1_09_2023\q5
[1, 4, 5, 6, 8]
```