FACULTY OF ENGINEERING AND TECHNOLOGY

BATCHELOR OF TECHNOLOGY

PYTHON PROGRAMMING (203105211)



Date of Submission: ......................... Staff In charge: ...........................

Head Of Department: ..........................................

Certificate

This is to certify that Mr./Ms. *MOPURI PRANEETH* with *enrolment no. 210303126147 has successfully completed his/her laboratory experiments in the* PYTHON PROGRAMMING (203105211)*from the department of PIET- CSE(CS) during the academic 2022-23.*

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**Practical-1**

**AIM:**

WAP to read and display the following information. Name, Address, Phone no.

**Code:**

Name = (input(“ please enter your name:”))

Address =(input(“please enter your address:”))

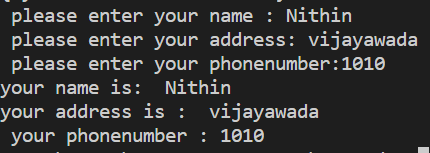
Phone number =(input(“please enter your phone number:”))

Print (“ your name is :”, name)

Print(“your address is :”, address)

Print(“ your phone number:”, phone number)

**Output:**



**Practical-2**

**AIM:**

WAP to read two numbers from the keyboard and display the larger one on the screen

CODE:

Num1= int (input(“enter first number:”))

Num2=int (input(“enter second number:”))

If num1>=num2:

If num1==num2:

Print(“both numbers are equal”)

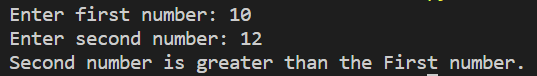
Else:

Print (“ first number is greater than the second number”)

Else:

Print(“ second number is greater than the first number”)

**Output:**

****

Practical-3

**AIM:**

WAP to find, a given number is PRIME or NOT

CODE:

Num = int (input(“enter any number:”))

If number>1:

For I in range (2, number)

If (number %i) ==0:

Print(number, “is not a prime number”)

Break

Else:

Print(number, “is a prime number”)

Else:

Print(number, “is not a prime number”)

**Output:**

****

**PRACTICAL-4**

**AIM:**

Write a Function to swap variable pair.

x **=** 10

y **=** 50

temp **=** x

x **=** y

y **=** temp

print("Value of x:", x)

print("Value of y:", y)

**Output:**



**PRACTICAL-5**

**AIM:**

WAP to find N! Using function.

**CODE:**

**num = int(input("Enter a number: "))**

**factorial = 1**

**if num < 0:**

**print(" Factorial does not exist for negative numbers")**

**elif num == 0:**

**print("The factorial of 0 is 1")**

**else:**

**for i in range(1,num + 1):**

**factorial = factorial\*i**

**print ("The factorial of",num,"is",factorial)**

**Output:**

****

**PRACTICAL-6**

**AIM:**

WAP to print Fibonacci series of ‘n’ numbers, where n is given by the programmer.

CODE:

nterms = int(input("How many terms? "))

n1, n2 = 0, 1

count = 0

if nterms <= 0:

print("Please enter a positive integer")

elif nterms == 1:

print("Fibonacci sequence upto",nterms,":")

print(n1)

else:

print("Fibonacci sequence:")

while count < nterms:

print(n1)

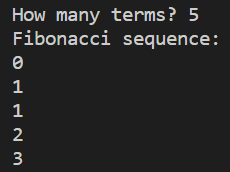
nth = n1 +n2

n1 = n2

n2 = nth

count += 1

**OUTPUT:**

****

**PRACTICAL-7**

**AIM:**

WAP to read a set of numbers in an array & to find the largest of them.

**CODE:**

**def largest(arr,n):**

**max = arr[0]**

**for i in range(1, n):**

**if arr[i] > max:**

**max = arr[i]**

**return max**

**arr = [10, 24, 45, 90, 98]**

**n = len(arr)**

**Ans = largest(arr,n)**

**print ("Largest in the given array is",Ans)**

**OUTPUT:**

****

**PRACTICAL-8**

**AIM:**

WAP to sort a list of names in ascending order.

**CODE:**

**names = [‘Nithin’, ‘Kavya’, ‘maha’, ‘pranii’, ‘krishna’]**

**names.sort()**

**print(names)**

**OUTPUT:**

****

**PRACTICAL-9**

**AIM:** WAP to read a set of numbers from keyboard & to find the sum of all elements of the given array using a function.

CODE:

**arr = [1, 2, 3, 4, 5];**

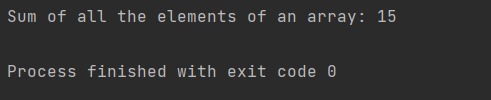
**sum = 0;**

**for i in range(0, len(arr)):**

**sum = sum + arr[i];**

**print("Sum of all the elements of an array: " + str(sum));**

**OUTPUT:**

****

PRACTICAL 10

10.Calculate area of different geometrical figures (circle, rectangle, square, and triangle).

CODE:

Import math

def circle():

r = int(input("Enter radius : "))

print(f"Area of circle = {math.pi\*r\*r}")

def triangle():

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

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

print(f"Area of triangle = {0.5\*base\*height}")

def rectangle():

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

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

print (f"Area of triangle = {length\*breadth}")

def square ():

side = int (input ("Enter side of square : "))

print (f"Area of square = {side\*side}")

Geoname = input("Enter goemtric figure name to find area : ")

If (Geoname == "circle"):

Circle ()

Elif (Geoname == "rectangle"):

Rectangle ()

Elif (Geoname == "triangle"):

Triangle ()

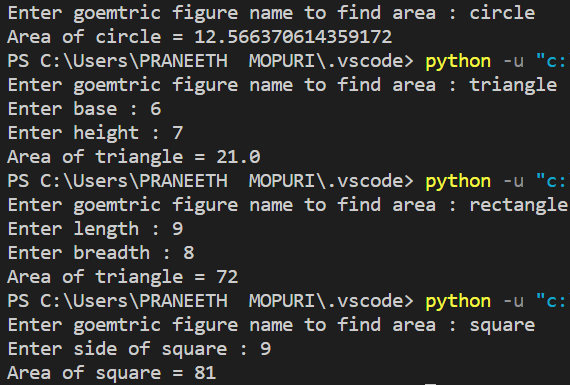
Elif (Geoname == "square"):

square ()

else:

print(f"{Geoname} is not available")

OUTPUT:

****