



Lab Mst 1

Student Name: Rajiv Paul UID: 20BCS1812

Branch: CSE Section/Group:607A

Semester: 4th Date of Performance: 24/03/2022

Subject Name: Programming in Python Lab Subject Code: 22E-20CSP-259

- 1) Aim/Overview of the practical:
- Q1. Write a python program to determine whether number is perfect number, an Armstrong number or a Palindrome number using for loop using parameterized Function.
- 2) Task to be done/ Which logistics used:

To write a python program to determine whether number is perfect number, an Armstrong number or a Palindrome number using for loop using parameterized Function

3) Algorithm/Flowchart (For programming based labs):





4) Steps for experiment/practical/Code:

```
labmstQ1.py -/Users/rajivpaul/Documents/python programs/labmstQ1.py (3.10.2)

n = int(input("Enter any number to check whether it is a perfect ,an armstrong or a palindrome number : "))

sum = 0

for in range(1,n):
    if ni=0:
        sum = sum + i

    if sum == n:
        print( n, "is a perfect number")

else:
    print( n, "is not a perfect number")

for armstrong number

total = 0

while temp > 0:
    digit = temp %10

total = total + (digit**3)
    temp = temp/10

if n == total:
    print( n, "is an armstrong number")

else:
    int n, "is not an armstrong number")

er print( n, "is not an armstrong number")

for palindrome number

temp = n

rev = 0

while n > 0:
    d = n % 10
    rev = rev *10 + d
    n = n//10

if temp = rev:
    print( temp, "is not a palindrome number")

else:
    print( temp, "is not a palindrome number")

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





5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:





- 1) Aim/Overview of the practical:
- Q2. Write a python program using return type with function to input a number and check if the number is prime or composite number using nested if-else loop.
- 2) Task to be done/ Which logistics used:

To write a python program using return type with function to input a number and check if the number is prime or composite number using nested if-else loop.

- 3) Algorithm/Flowchart (For programming based labs):
- 4) Steps for experiment/practical/Code:





5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:





Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Parameters	Marks Obtained	Maximum Marks
	Parameters	Parameters Marks Obtained

