



“Lab Report-01”

Course Code:	Course Title:
CSE 222	Object-Oriented Programming Lab

Lab Report Details	
Topic	: Basic Python Programming
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Problem 1:

```
n = int(input("Enter the length of natural numbers:
"))
sum = 0
for i in range(1, n+1, 1):
    sum = sum + i

print("Sum = ",sum)
```

Output:

```
"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\For Loop 1.py"
Enter the length of natural numbers: 11
Sum = 66

Process finished with exit code 0
```

Problem 2:

```
n = int(input("Enter multiplication table number: "))
for i in range(1, 11, 1):
    print(n ,"x" ,i ,"= ",n*i)
```

Output:

```
"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\Multiplication Table.py"
Enter multiplication table number: 8
8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
8 x 9 = 72
8 x 10 = 80

Process finished with exit code 0
```

Problem 3:

```
n = int(input("Enter the number: "))
count = 0
if n == 1:
    print("Not a Prime Number")
```

```

elif n>1:
    for i in range(2, (n//2)+1, 1):
        if n%i == 0:
            count = count +1
            break

    if count == 1:
        print("Not a prime Number")
    else:
        print("Prime Number")

```

Output:

```

"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\Prime Number.py"
Enter the number: 53
Prime Number

Process finished with exit code 0

```

Problem 4:

```

n = int(input("Enter the length"))
i = 1
while(i<=n):
    print(i,"^2 = ",i**2)
    i = i+1

```

Output:

```

"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\Square of the numbers.py"
Enter the length: 5
1 ^2 = 1
2 ^2 = 4
3 ^2 = 9
4 ^2 = 16
5 ^2 = 25

Process finished with exit code 0

```

Problem 5:

```

n = int(input("Enter an integer number: "))
sum = 0

```

```
rem = 0

while(n != 0):
    rem = n % 10
    sum = sum + rem
    n = n // 10

print("Sum of the digits is = ", sum)
```

Output:

```
"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\Sum of digits.py"
Enter an integer number: 782
Sum of the digits is = 17

Process finished with exit code 0
```

Problem 6:

```
n = int(input("Enter series length: "))
sum = 0
i = 1
while(i <= n):
    if i % 2 == 0:
        sum = sum + i
    i = i + 1

print(sum)
```

Output:

```
"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\Sum of even numbers.py"
Enter series length: 15
56

Process finished with exit code 0
```

Problem 7:

```
str = input("Enter a string: ")
```

```
sub_str = input("Enter a substring: ")

if sub_str in str:
    print("Sub string present in string")
else:
    print("Substring does not present in the substring")
```

Output:

```
"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\sub string.py"
Enter a string: Be positive
Enter a sub_string: sitive
Sub string present in string

Process finished with exit code 0
```

Problem 8:

```
str = input("Enter a string: ")
count = 0
for i in str:
    if (i == "a" or i == "e" or i == "i" or i == "o" or i ==
        "u" or i == "A" or i == "E" or i == "I" or i == "O" or i ==
        "U"):
        count = count + 1

print("Total vowels are: ", count)
```

Output:

```
"C:\Users\HP\PycharmProjects\Lab task 2\.venv\Scripts\python.exe" "C:\Users\HP\PycharmProjects\Lab task 2\vowel count.py"
Enter a string: Keep Learning
Total vowels are: 5

Process finished with exit code 0
```

