LABORATORY RECORD

**CSE3011 PYTHON PROGRAMMING**

**Student Name- Aditya Hatwar Student Regn. No.- 23BAI10902 FallSemester- 2024 -2025**

**Year- 2nd**

**Semester- 2024**

**ClassNbr: BL2024250100774 Slot: B21+B22+E21+E22**

**Class Room- AB-514**

**Faculty Name- Dr. RUDRA KALYAN NAYAK**

## School of Computing Science & Engineering

**VIT Bhopal University**





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| **Sl No** | **Date** | **Experiment Name** | **Total (50M)**  **(**Evaluation Metric: Logic, Execution, Result) | **Remark** |
| **1.** |  | Write python program to print list of numbers using range and for loop. |  |  |
| **2.** |  | Write python program to print first n prime numbers. |  |  |
| **3.** |  | Write python program to multiply matrices. |  |  |
| **4.** |  | Write python program to take command line arguments (word count). |  |  |
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COURSE CODE: CSE3011 COURSE NAME: PYTHON PROGRAMMING

LAB-1: … Write python program to print list of numbers using range and for loop.

**OUTPUT AND CODE**

start = 1

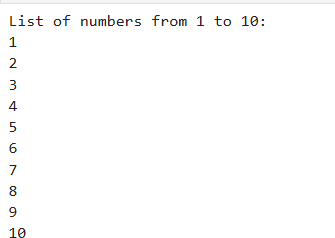
end = 11

step = 1

numbers\_list = list(range(start, end, step)) print("List of numbers from 1 to 10:")

for number in numbers\_list: print(number)

OUTPUT -



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**LAB-2: Write python program to print first n prime numbers**

# CODE AND OUTPUT -

def is\_prime(num):

return num > 1 and all(num % i != 0 for i in range(2, int(num\*\*0.5) + 1))

def print\_first\_n\_primes(n):

count, num = 0, 2 while count < n:

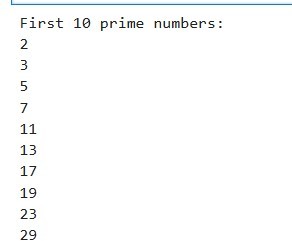
if is\_prime(num):

print(num) count += 1

num += 1

n = 10

print(f"First {n} prime numbers:") print\_first\_n\_primes(n)

OUT PUT-

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LAB 3- Write python program to multiply matrices. CODE AND OUTPUT –

def matrix\_multiply(A, B):

result = [[0 for \_ in range(len(B[0]))] for \_ in range(len(A))] for i in range(len(A)):

for j in range(len(B[0])): for k in range(len(B)):

result[i][j] += A[i][k] \* B[k][j] return result

A = [[1, 2], [3, 4]]

B = [[5, 6], [7, 8]]

print(matrix\_multiply(A, B))

OUTPUT-

))

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COURSE CODE: CSE3011 COURSE NAME: PYTHON PROGRAME

LAB 5 - Write python program in which a function is defined and calling that function prints ‘Hello World’.

CODE AND OUTPUT –

def hello\_world(): print("Hello World")

hello\_world() OUTPUT-

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LAB 6 - Write python program to let user enter some data in string and then verify data and print welcome to user.

OUT PUT AND CODE –

user\_input = input("Enter your data: ") if user\_input:

print(f"Welcome, {user\_input}!") else:

print("No data entered.")

# OUTPUT -

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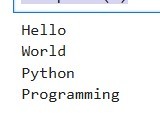
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LAB 7- Write python program to store strings in list and then print them. 0UTPUT AND CODE –

strings = ["Hello", "World", "Python", "Programming"] for s in strings:

print(s) OUTPUT –

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LAB 9 - Write python program in which a class is defined, then create object of that class and call simple ‘print function’ defined in class.

OUTPUT AND CODE –

class MyClass:

def print\_message(self): print("Hello from MyClass")

obj = MyClass() obj.print\_message()

OUTPUT -

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LAB 10 - Write python program in which an function (with single string parameter ) is defined and calling that function prints the string parameters given to function.

OUTPUT AND CODE –

def print\_string(s): print(s)

print\_string("This is a test string.")

OUTPUT -

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