

GLS UNIVERSITY
Msc.IT PROGRAMME [SEMESTER-I]
SUBJECT: OBJECT ORIENTED PROGRAMMING FOR PYTHON
LABORATORY

TASK - 4

DATE: 10 AUGUST 2023

TASK DEADLINE: 19 AUGUST 2023

1. Write a python function for calculating cube of the number.
Define a second function called `by_three` that takes an argument called `number`. if that number is divisible by 3, `by_three` should call `cube(number)` and return its result. Otherwise, `by_three` should return `False`.
2. Write a python function to print all the prime numbers between the specific range given by user.
3. Write a menu driven program for creating calculator with arithmetic operations. Create functions for `+`, `-`, `*` and `/` and call those functions in switch case.
4. Write a function to print following patterns:
 - (i)

```
1 0 1 0 1
0 1 0 1 0
1 0 1 0 1
0 1 0 1 0
1 0 1 0 1
```
 - (ii)

```
1
2 3
4 5 6
7 8 9 10
```
 - (iii)

```
*
* *
* * *
* * * *
* * * * *
* * * * *
* * *
* *
*
```
5. Write a python function to find the factorial of the number.
6. Write a python function to find the GCD of two numbers.
7. Write a python function to find the sum and average of all the elements in the list. Return these values and print them outside the function.

