# Day 2 – Assignment

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Q1: Create a method to find the sum of the cubes of the digits of an n digit number

## **Solution** –

**Q2:** Write a program that should ask a number from user. You need to display all the prime numbers till that number. For exam: 25

### Solution -

```
import java_util.Scanner;

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public class PriseNumbers {

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public static void main(String[] args) {

Scanner scan = new Scanner(System.in);

int = scan.nestInt();

scan.class();

prineNum(n);

prineNum
```

Q3: Create a class NaturalNumberSumDemo, Here you need to calculate the sum of first n natural numbers which are divisible by 3 and 5. Follow below table:

ClassName	NaturalNumberSumDemo
Helper Method	calculateSum
Name Method Description	To find the sum first n natural number
	divisible by 3 and 5
Argument	int number
Return type	Int
Logic	Calculate the sum of first n natural
	numbers divisible by 3 and 5

### Solution -

Logic I used here is - To find the sum first n natural number divisible by 3 and 5

```
package com.Assignment.day2;
laport java.util.Scanner;

public class NaturalNumberSumBeno {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        int n = scan.nextint();
        sam.closs();
        int sum;
        sum collouteSum(n);
        System.out.printin(sum);
    }
}

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public static int calculateSum(int a) {
    int sum = 0;
    for (int i = 1; i <= a; i++) {
        sum = 1;
        sum = 5;
    }
    return sum;
}

return sum;
}
</pre>
```

**Q4:** Imagine that you are working on a library management app. In this app, members can get the books issued. We have a data of books which are issued by members. Your job is to find out the average number of books that are issued in a month by library members.

Follow the below instructions to attempt this exercise.

- 1. Create a Person class
- 2. Keep id, name, books\_issued fields in Person class.
- 3. Create a parameterized constructor in Person class, and you must have getters for all fields. 4. Create a LibraryDemo class with main method
- 5. Use below table for further reference.
- 6. Make sure to use modular approach.

Persons data	Person[] persons=new Person[]{ new
	Person(101,"pankaj",3), new
	Person(102,"vikas",2), new
	Person(103,"vineet",3), new
	Person(104,"akash",1), new
	Person(105,"shalini",0), new
	Person(106,"shikha",1), new
	Person(108,"prateek",3) };
Get only books_issued number	<pre>private int[] getBooksIssued(Person[]</pre>
	persons){ //TODO: Write your logic here
	}
Find the average books issued by all	private int findAvgBookIssued(int[]
members	books_issued){ //TODO: Write your logic
	here }

#### Solution -

```
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```

```
| B:\so_cket\Cappemin\java\bin\java.eve "-javaagent:B:\Joining Cappemin\PluralSig
| private int findAvgBookIssved(int[] books_issved){
| int yum = 0;
| for (int j : books_issved) {
| yum += j;
| }
| return Math.round(((float)yum/books_issved.length));
| }
| public static void main(String[] args){

| Person[] persons = new Person[id 102, name "vikas", books_issed: 2),
| new Person[id 103, name "vikas", books_issed: 2),
| new Person[id 105, name "vihas", books_issed: 3),
| new Person[id 106, name "shalini", books_issed: 3),
| new Person[id 108, name "shalini", books_issed: 3),
| int avgBooks = lib.getBooksissed(persons);
| int avgBooks = lib.fetBooksissed(persons);
| int avgBooks = lib.fetBooksissed(books);
| System.out.println("Average number of books: " + avgBooks) |
| }
| }
```