

MIT Academy of Engineering
School of Computer Engineering & Technology
MATLAB Project Progress Report-I
Class- S.Y. B Tech
Sub: Applied Mathematics Lab

Roll No	Name
CETSYB656	Gaurav Medhane
CETSYB657	Saurabh Gawade
CETSYB667	Sarvesh Pathak
CETSYB672	Kedar Parsewar

Block-B6 -IT Batch- B2

Title Of Project:

The eight divisors of 24 are 1, 2, 3, 4, 6, 8, 12 and 24. The ten numbers not exceeding 100 having exactly eight divisors are 24, 30, 40, 42, 54, 56, 66, 70, 78 and 88. Let $f(n)$ be the count of numbers not exceeding n with exactly eight divisors.

You are given $f(100) = 10$, Find $f(1000)$.

Literature Survey: (Mention Titles of at least two books read or url of the web page visited)

First we brush up the mind by watching the video of how to find the Divisors of any number. And For Finding the Divisors we follow the step by step process.

For example: The Divisors of 30 are 1,2,3,5,6,10,15,30 the Eight Divisors.

<https://www.youtube.com/watch?v=AieJOqt0xdo>

<https://www.wikihow.com/Determine-the-Number-of-Divisors-of-an-Integer>

Mention what do you understand from the project statement & what exactly you have to compute.

By the Given project Statement the Divisors of 24 are 8.that means the factors/divisor 24 are 8.

30- the Divisors of 30 are 1,2,3,5,6,10,15,30 which are 8.

40-The Divisors of 40 are 1,2,4,5,8,10,20,40 which are 8 .

And this Goes on till the 42,54,56,66,70,78 which has the Eight Divisors respectively.

In the Given project statement they have given us that In 1 to 100 there are 10 numbers which has the 8 Divisors.

For ex-24,30,40,42,54,56,66,70,78 which is in 100. It means $F(100)=10$

By using this information we have given the task that find the count of numbers not exceeding 1000 with exactly eight divisors.

$F(1000)=??$

Rubrics for the Assessment of Progress Report:

Item	5 Marks	4 marks	3 Marks	2 Marks
Literature Survey	Titles of two books with author name, publication name, publication with url of page number is given. But page number is missing. But page given.	Titles of two books with author name, publication name, given along with the page number is given. visited is (referred) is missing. But page given. Improper url number is address is missing. of the web given. Reference of page visited is online given.	Titles of two books with author name along name is given. But page name is web sources is not given.	Reference of only one publication name is given. web page number is missing.
Understanding of the information Statement	Understanding of the information problem is with clear but mathematical information. approach is missing approach is given with correct method	Understanding of the information problem is given with grammatical mistakes. approach is Mathematical	Vague Irrelevant g Project g of the g of	Understanding of the information problem is given clear

Note: If there is no any response for the item zero marks will be given.

1. It is expected to upload the file.