

# IARE INSTITUTE OF AERONAUTICAL ENGINEERING

(An Autonomous Institute affiliated to JNTUH, Hyderabad) Dundigal, Hyderabad - 500 043

# LABORATORY WORK BOOK

		Student: HTMAKAR						/ Poll Numb	or '	
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		Rectangles 1);	in .		MARKS AWARDED (1) fire					
5.	Exercise Number	EYEDCISE NAME	Aim/ Preparation		Algorithm / Procedure  Performance in the Lab  4		Source Code Calculations and Graphs 4	Program Execution Results and Error	Viva - Voce	ांotal ृ20
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Signature of the Student

Signature of the Faculty

# START WRITING FROM HERE

7.1 Area of a Rectangle Problem

Design and develop a program that calculates

the area of a rectangle. The Program

takes input for length and width, calculates

the area and then outputs the result.

USAG MEDING EMPERATOR SITE

# Program:

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1 = int(input('Enter length of Rectangle: '))

b = int(input('Enter breadth of Rectangle: '))

Parint ('Area of Rectangle is: ', 1 \* b)

#### OUTPUT:

where etrebuse

no trains fr

Area of Rectangle is: 600

# Test-case-2:

Enter length of Rectangle: 5
Enter breadth of Rectangle: 5
Area of Rectangle is: 25

7-2 Students' Grades Based on their scores Design & develop a program that categorizes Students' grades based on their scores. Program: 5 = int(input('Enter score of student: ')) if 5 >= 1490; resentai total ) fullation = 11 eliq s'>=2180= mum marib to (sirchard) salver Point ('Grade = 13') elif 5>= 70: Paint ('Grade = 'C') Enter integer to find factoricos =< 2 7119 Point (Grade= aldi) revis to Introduct elif s >= 50: Paint ('Grade = 'E') else: Paresar Laires es finit es regestai restad OUTPUT: Testcose-1 Enter score of Student: 80 Grade = B

7.3 factorial of a given Number

Design & develop a program that calculates

factorial of a given number.

#### Poogoam:

from math import factorial

n = int(input('Enter integer to find factorial: 1))

Posint ('Factorial of fiven number is: 1, factorial (n))

(1) = 360000

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100 or 2 sin

J = str.

#### OUTPUT:

#### Test case -1:

Enter integer to find factorial: 5

Factorial of given number is: 120

### Test-case-2:

Enter integer to find factorial: 6
Factorial of given number is: 720

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