

SIVA SIVANI DEGREE COLLEGE (AUTONOMOUS)

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(Affiliated to Osmania University) Kompally, Secunderabad - 100.

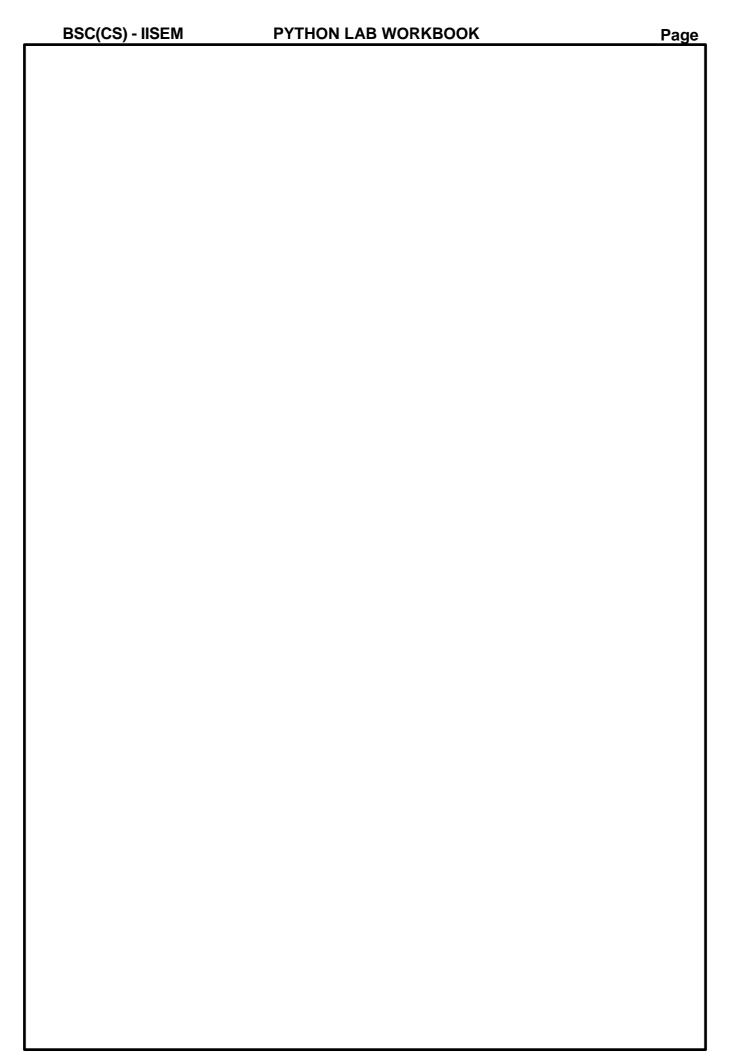
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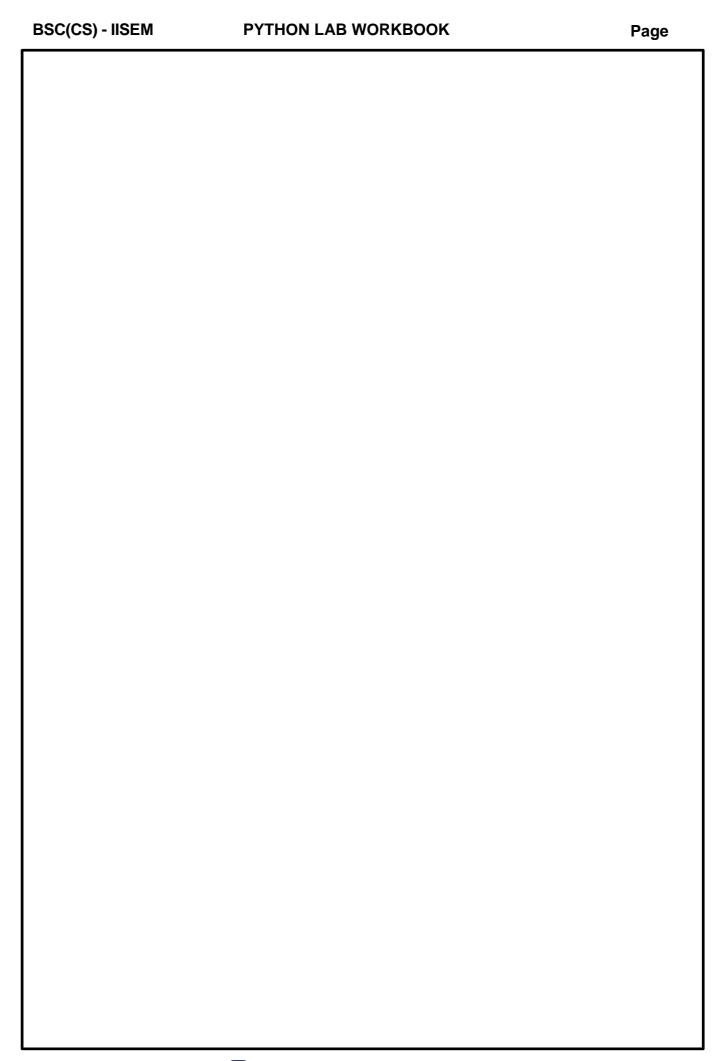
This is to certify that this is the	
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Head of the Department	Internal Examiner
	External Examiner



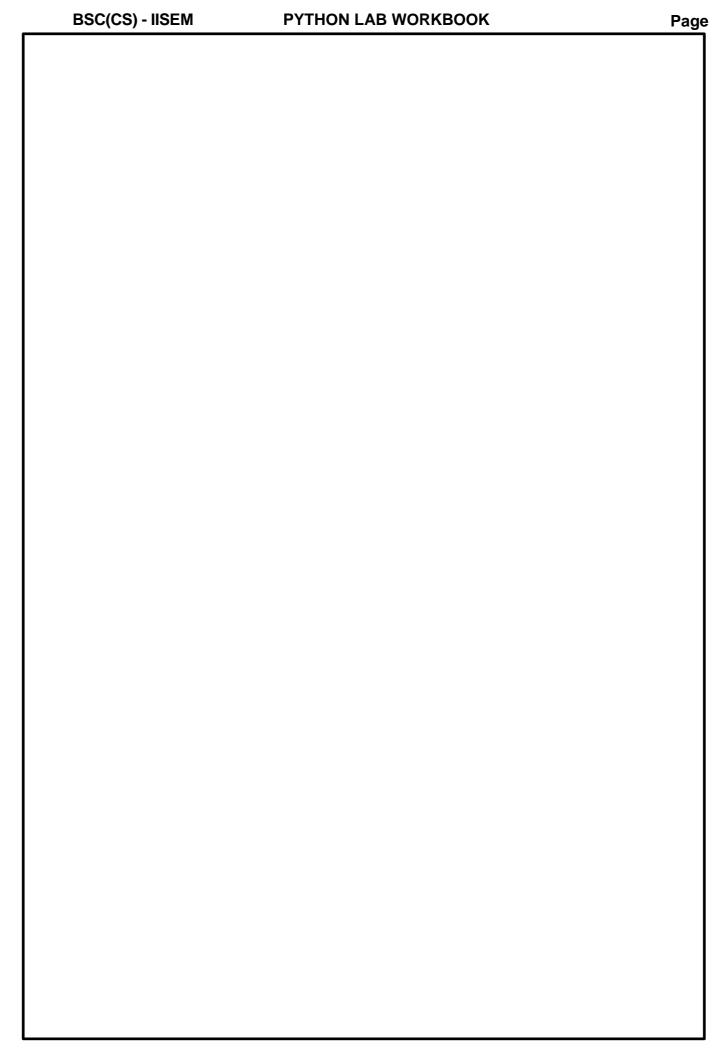


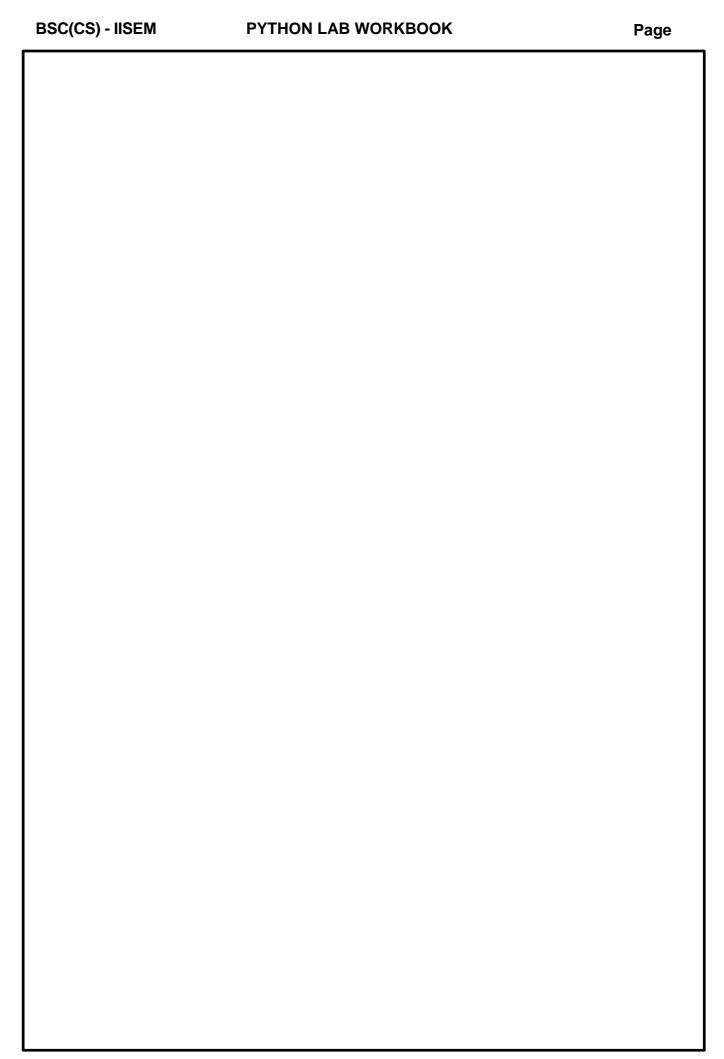
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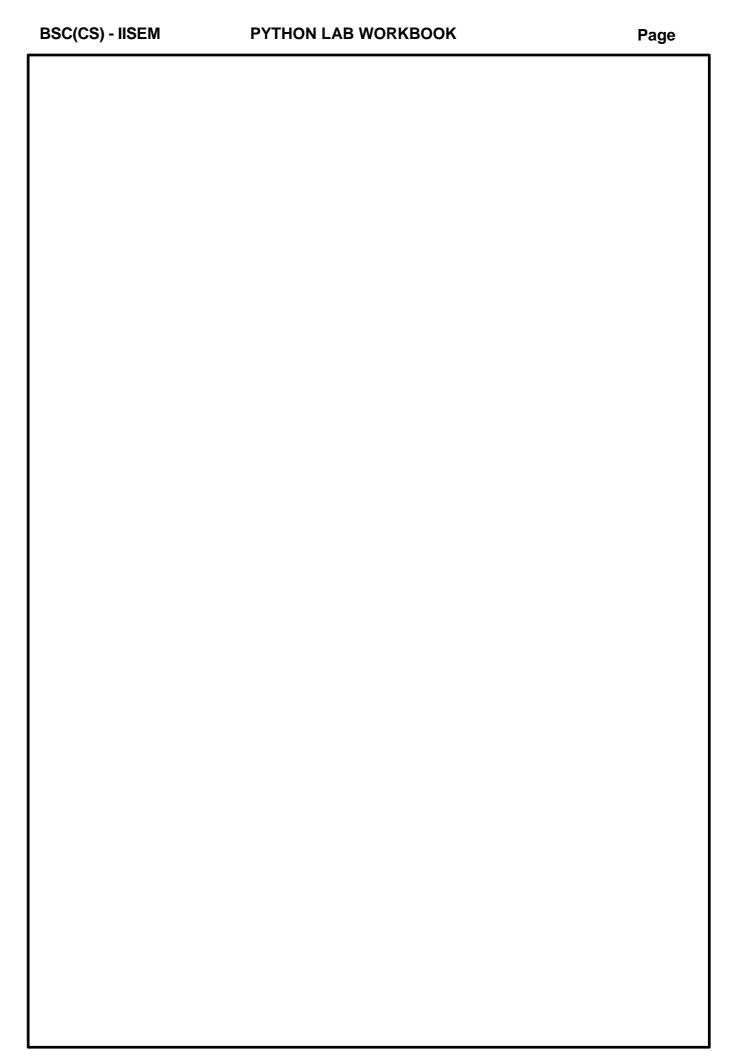




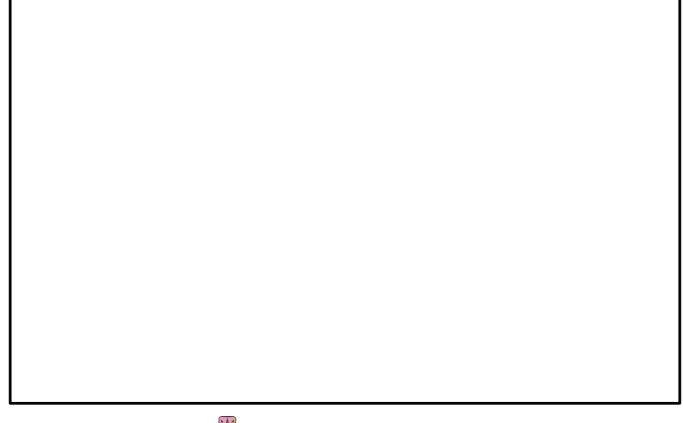


Lab Exercise Programs	DATE:
ate Membership operators. user's name is in a pre-defined list of perators.	LAB FACULTY SIGN:
perators. erforms the following operations on a but a string from the user.B) Print the	CLASS FACULTY SIGN:
	te Membership operators. user's name is in a pre-defined list of perators. to variables refer to the same object in perators. erforms the following operations on a

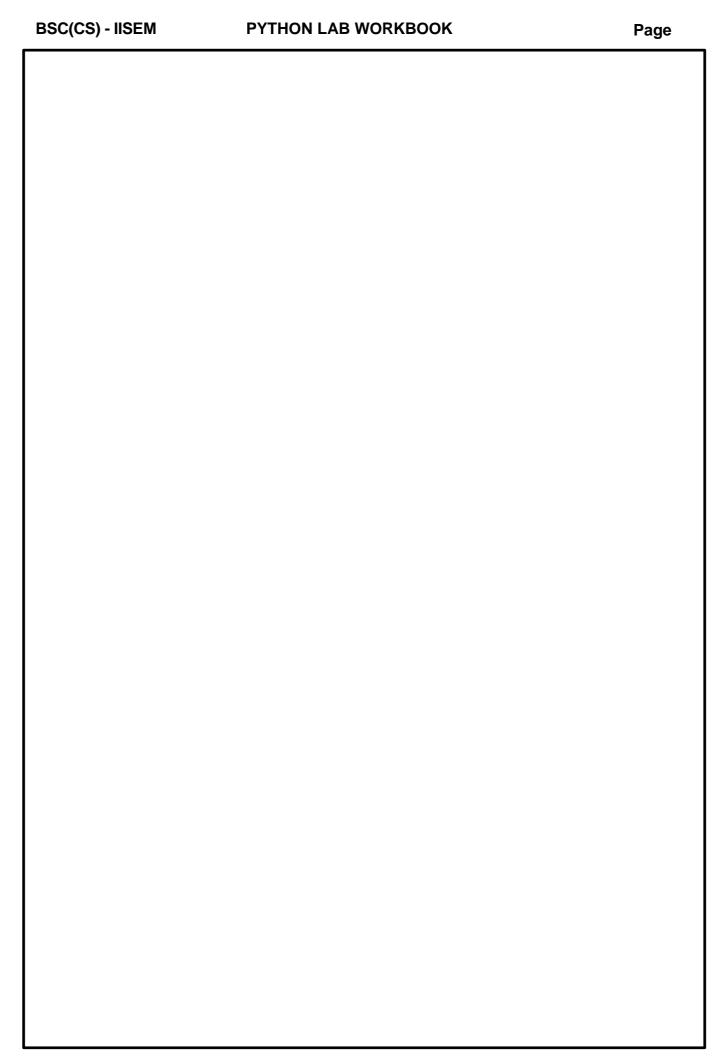


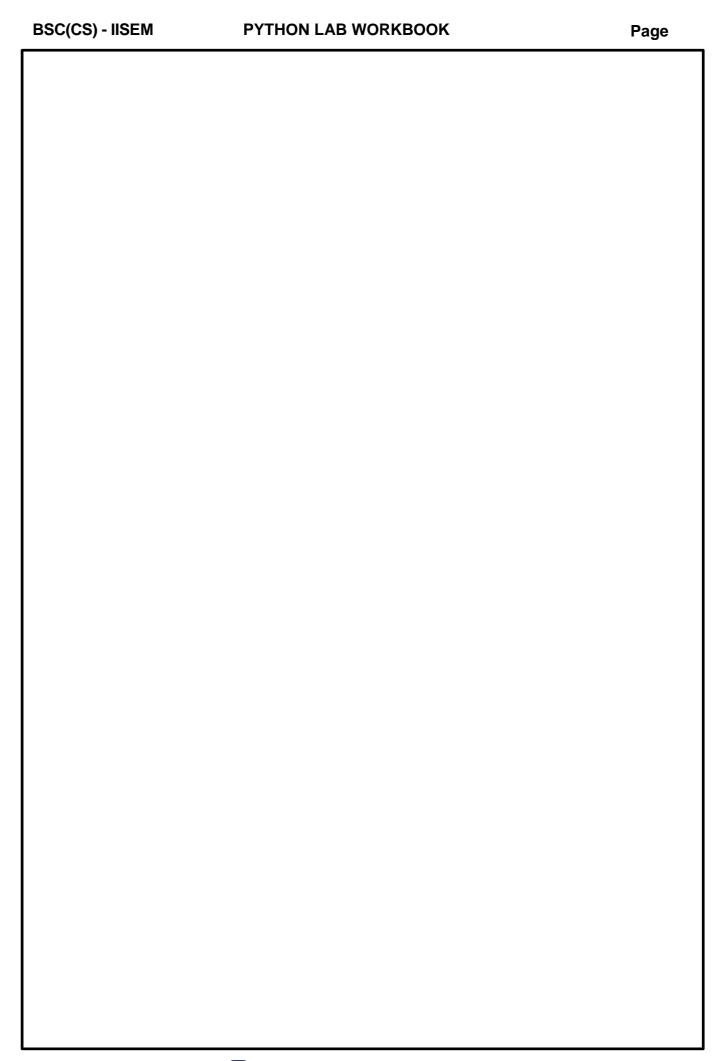


WEEK -4	Lab Exercise Programs	DATE:
string provided by the user:a) (b) Convert the string to lower (hat performs the following operations on a Convert the string to uppercase and print it. c)Count the number of	LAB FACULTY SIGN:
list.a) Create a list b) Print the		
list. a) Print the first element to for	ourth element in the list. b)print the first	CLASS FACULTY SIGN:
list.a) Create a list b) Print the	nat performs the following operations on a index of the first element c) Remove the 3 rd	
element in the list		
ASSESMENT: Question: Design a Python program fo program should allow a user	r a Contact Management System. The	
1. Add a new contact b	y providing a name and phone number on in a list of strings).	
2. Search for a contact	by their name (case-insensitive search).	
	n a formatted way (e.g., ''Name: [Name], ber]'').	

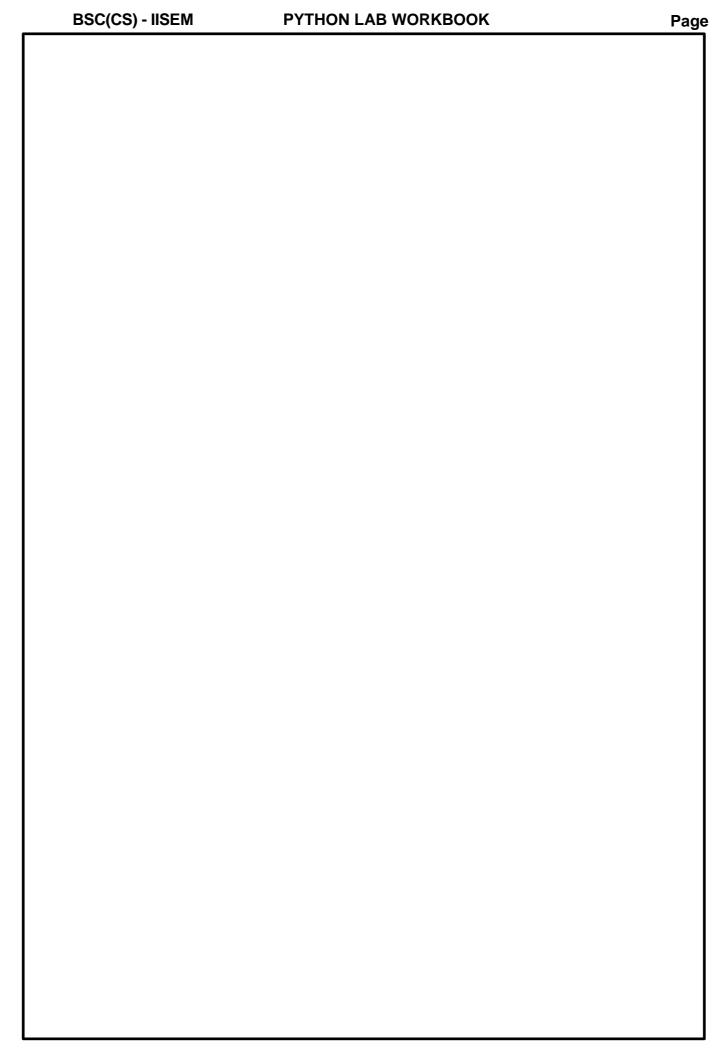












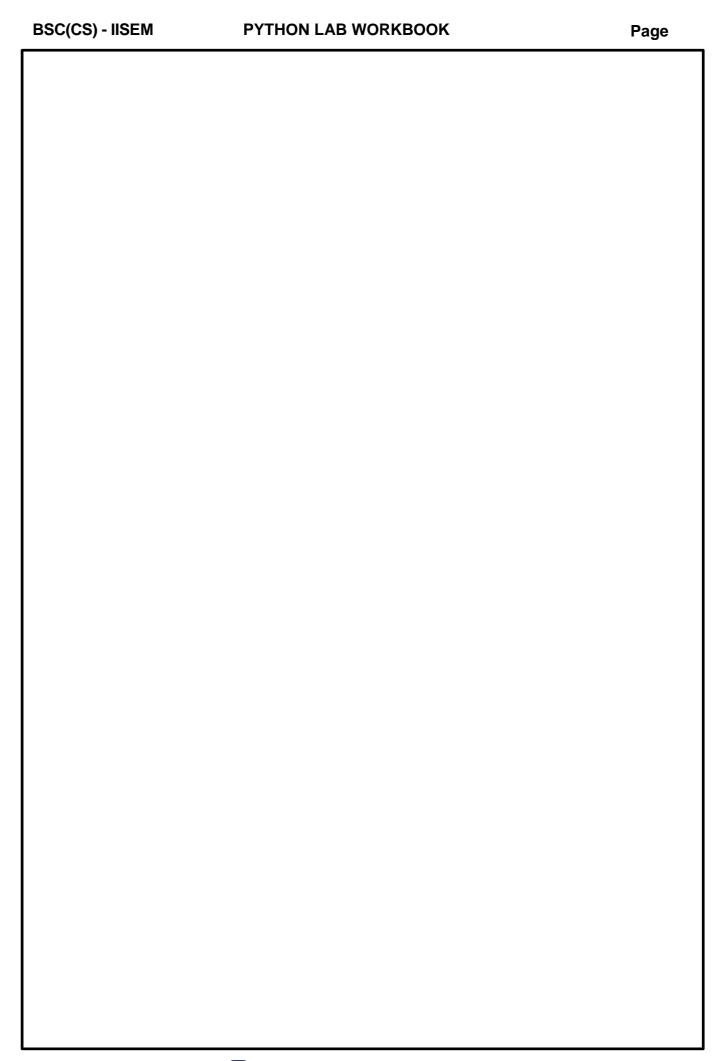
	Lab Francia B	DATE
WEEK -5	Lab Exercise Programs	DATE:
st.A)Add the element in the list everse the element in the list 2. Write a Python program the uplea) Create a Tuple b) Prince 3 rd element in the Tuple 3. Write a Python program the uplea) Print the first element rest element from the light 4. Write a Python program the uplea and reverse the element in the strength and reverse the element in the uplea and reverse the element in the strength and reverse	at performs the following operations on a list b) Remove the element in the list c) t. at performs the following operations on a to the index of the first element c) Remove at performs the following operations on a to fourth element in the Tuple. b)print the attmost index. The index of the following operations on a to the Tuple b) Add the element in the Tuple at performs the following operations on a Print the first element in the dict c) Print the tin the dict. d)print the first element from	LAB FACULTY SIGN:
Dictionariesa) Create a dict b)	Print the first element in the dict c) Print the	



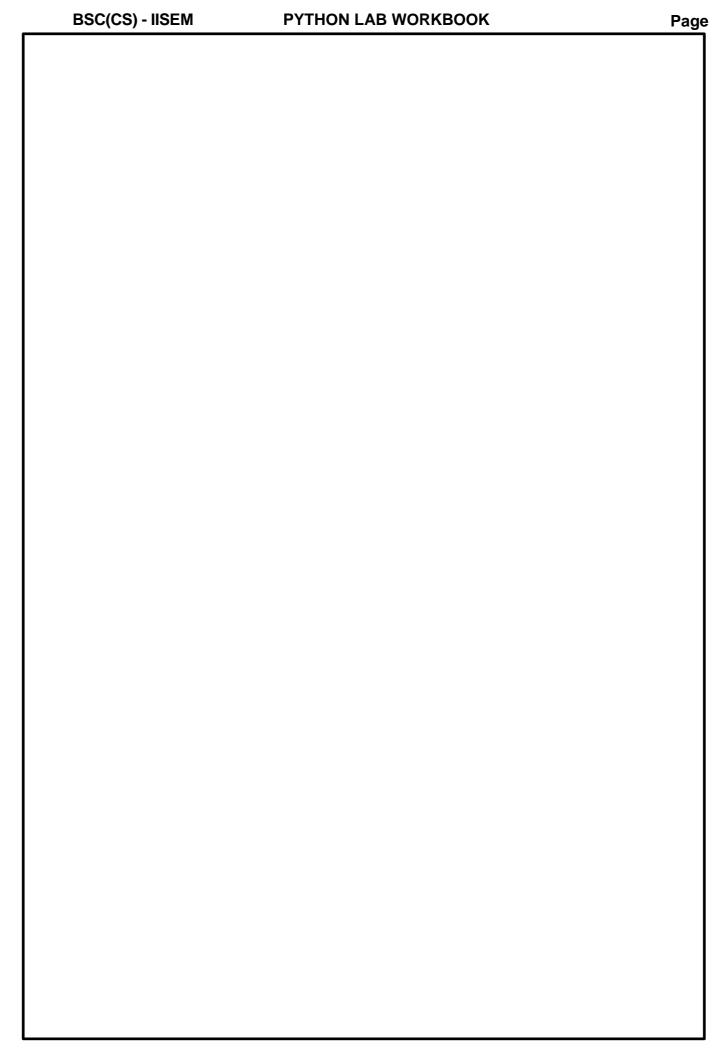
WEEK -6	Lab Exercise Progr	rams DATE:
Dictionaries a) Cr Remove the 3 rd el 27. Write a Pytho Dictionaries. a)Pr the first element f	on program that performs the following oper reate a dict b) Print the index of the first element in the dict in program that performs the following oper int the first element to fourth element in the from the rightmost index. c) reverse the element in the dict.	ations on a e dict. b)print
28. Write a Pytho In this program, a 29. Write a Pytho converting a) floa 30. Convert a decisystem. ASSESMENT: SObjective: Create	n program that demonstrates implicit type odd an integer to a float, and print the result n program that demonstrates explicit type of to an integer b) integer to hex c) integer to mal number into binary,octal, and hexa decorded to the control of the contro	conversion by octal
2. Perform of students).	operations on lists (such as storing and displ	aying
3. Use tuple	s to represent immutable grade data for each	n student.
	tionary to store student names as keys and the state of t	neir grades
5. Calculate	the average grade for each student.	





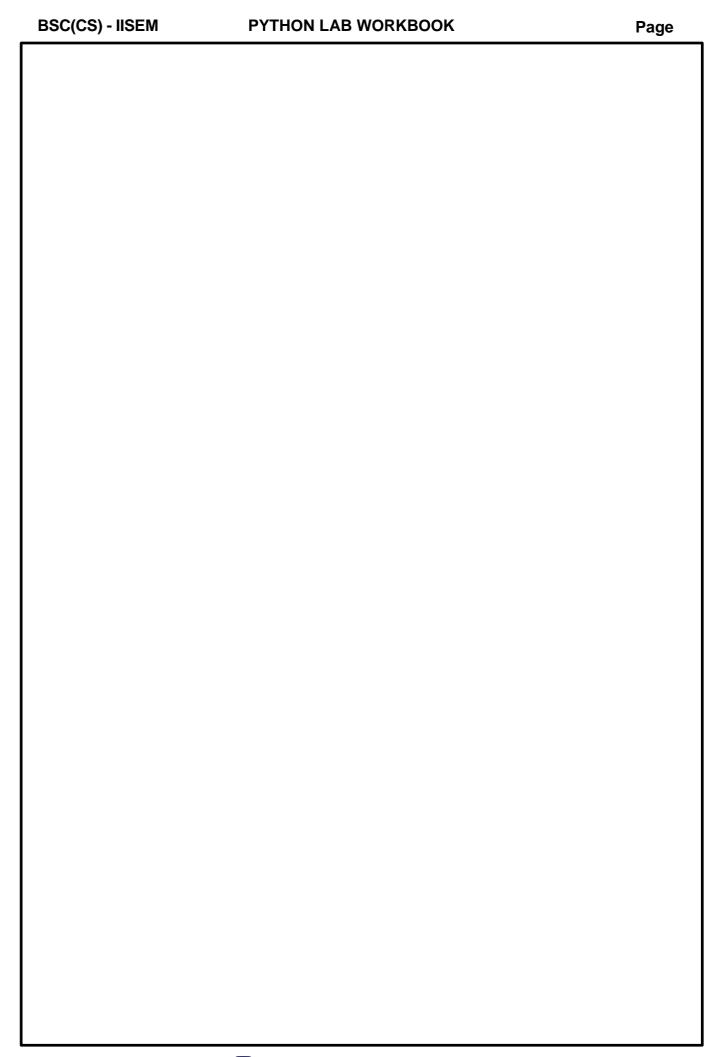


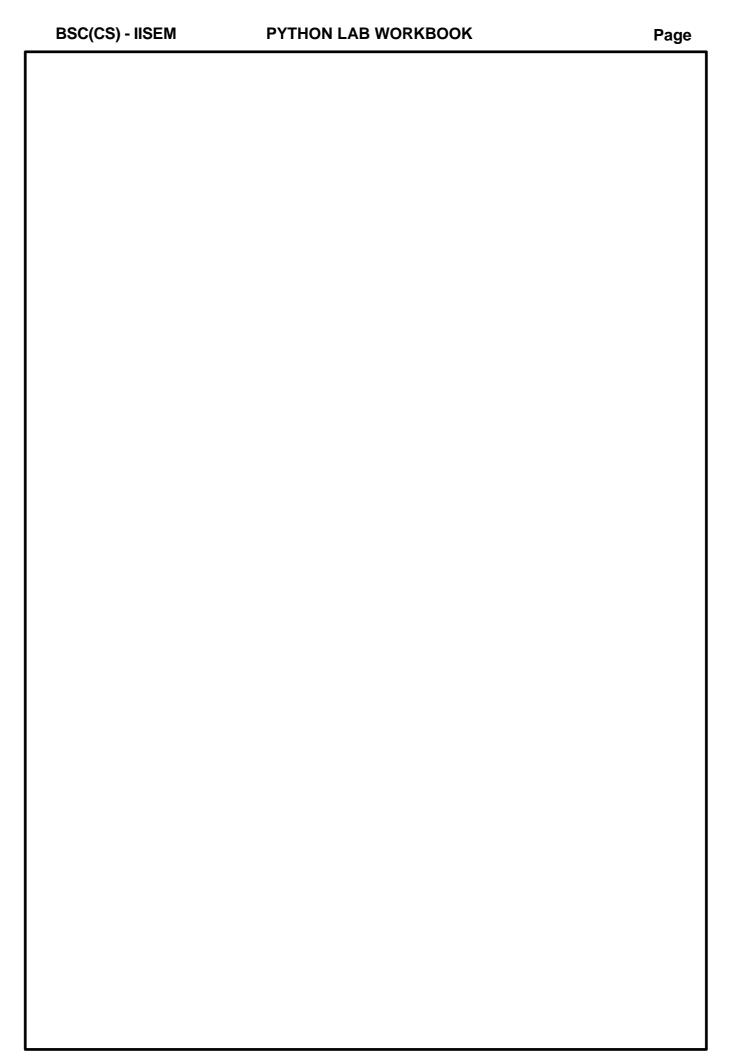




WEEK -7	Lab Exercise Programs	DATE:
32. Find the Square of a nur	to Calculate Area of Triangle nber	LAB FACULTY SIGN:
.37) To check grade on ente	ntered year is leap year s positive, negative, or zero using elif	CLASS FACULTY SIGN:

WEEK -8	Lab Exercise Programs	DATE:
000 Program that reads set argest numbers.	of all prime numbers between 1 and of integers and displays first and second n of first 'n' natural numbers.	LAB FACULTY SIGN:
		CLASS FACULTY SIGN:
2. Deposit money into the	ne account.	
3. Withdraw money from	m the account.	
4. Perform transactions (for withdrawals).	only if the account has enough balance	
You should use conditional st The user can only wit sufficient balance.	eatements to ensure that: Thdraw money if the account has	
• The user cannot depo	sit a negative amount.	

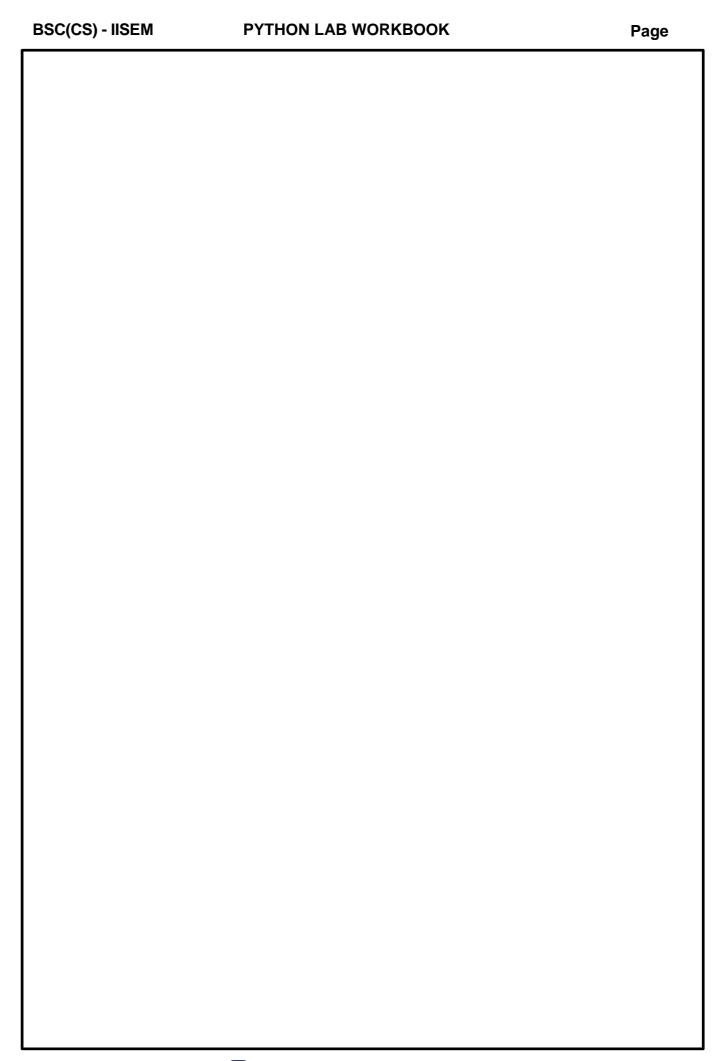




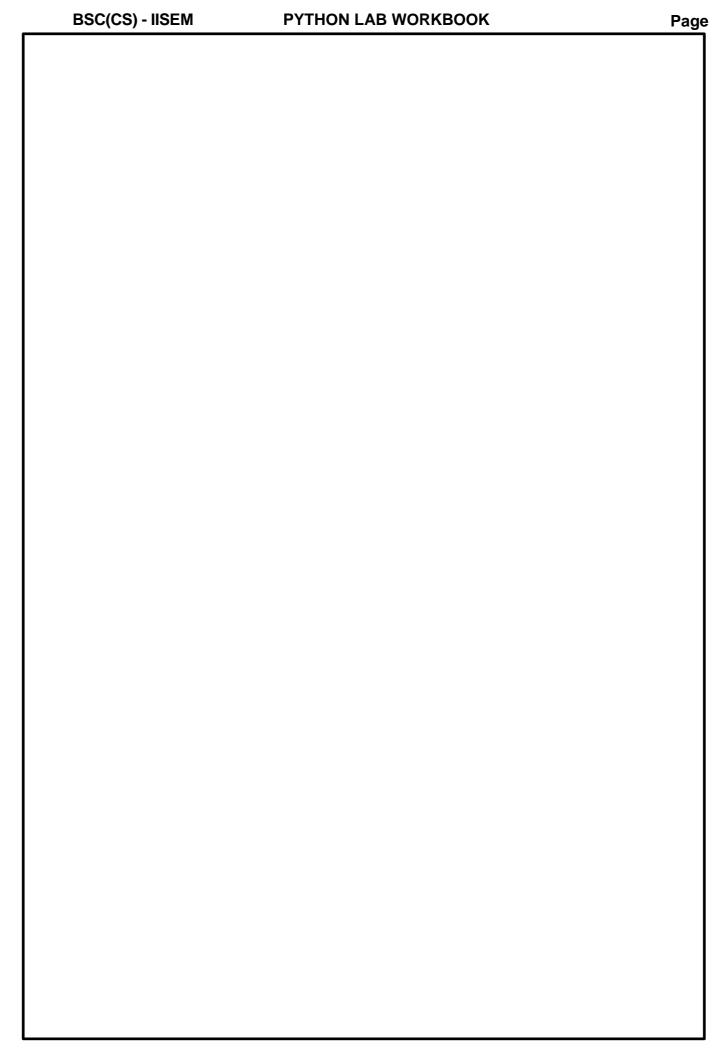
WEEK -9	Lab Exercise Programs	DATE:
41) Program to find the produc	ct of two matrices	LAB FACULTY SIGN:
42) Program to find the roots of		
43) Program to compute the G		
44) Program to find the factori		
	Sequence up to given number 'n'	
46) Program to print First N p		CLASS FACULTY SIGN:
47) Program to multiply matric		

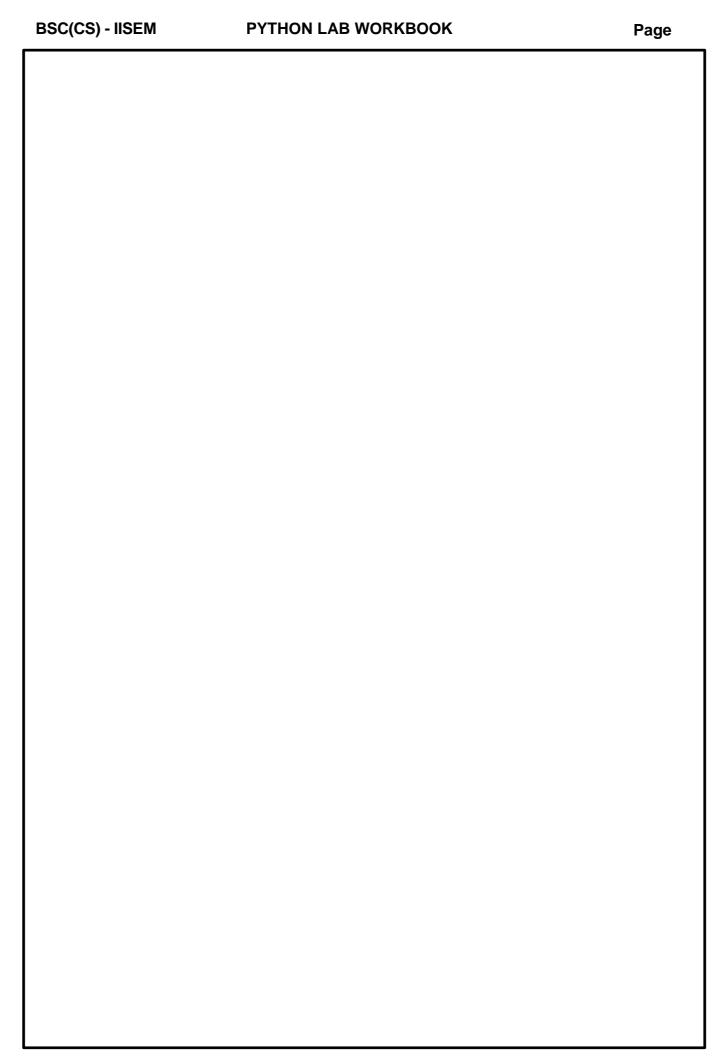


WEEK -10 Lab Exercise Programs DATE: 48) Program to convert decimal number to Binary equivalent 49) Program to Find the square root of a number (Newton's method). 50) Exponentiation power of a number. ASSESMENT: Question: Bank Account Management System Objective: You need to implement a simple Bank Account Management System that allows the user to: 1. Check account balance. 2. Deposit money into the account. 3. Withdraw money from the account. 4. Perform transactions only if the account has enough balance (for withdrawals). You should use conditional statements to ensure that: • The user can only withdraw money if the account has sufficient balance. • The user cannot deposit a negative amount.	BSC(CS) - IISEM	PYTHON LAB WORKBOOK	Page
49) Program to Find the square root of a number (Newton's method). 50) Exponentiation power of a number. ASSESMENT: Question: Bank Account Management System Objective: You need to implement a simple Bank Account Management System that allows the user to: 1. Check account balance. 2. Deposit money into the account. 3. Withdraw money from the account. 4. Perform transactions only if the account has enough balance (for withdrawals). You should use conditional statements to ensure that: • The user can only withdraw money if the account has sufficient balance.	WEEK -10	Lab Exercise Programs	DATE:
	WEEK -10 48) Program to convert dec 49) Program to Find the sq 50) Exponentiation power of ASSESMENT: Question: B Objective: You need to imp Management System that a 1. Check account bala 2. Deposit money into 3. Withdraw money fr 4. Perform transaction (for withdrawals). You should use conditional • The user can only we sufficient balance.	Lab Exercise Programs cimal number to Binary equivalent quare root of a number (Newton's method). of a number. Bank Account Management System blement a simple Bank Account llows the user to: once. the account. From the account. Instance only if the account has enough balance statements to ensure that: withdraw money if the account has	DATE: LAB FACULTY SIGN:





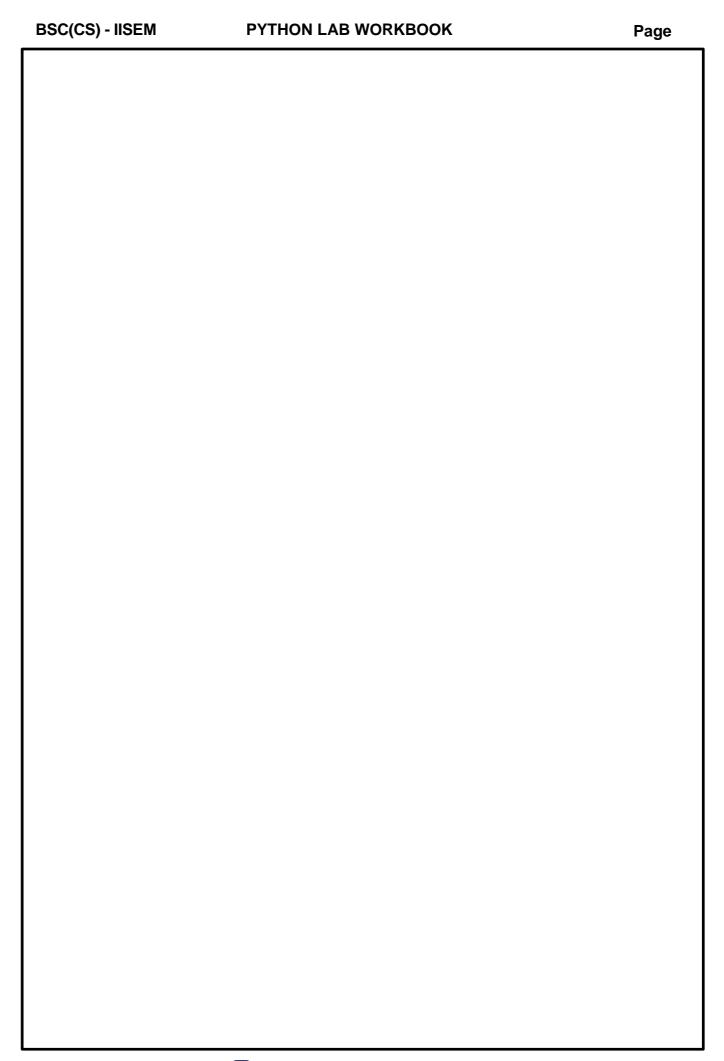


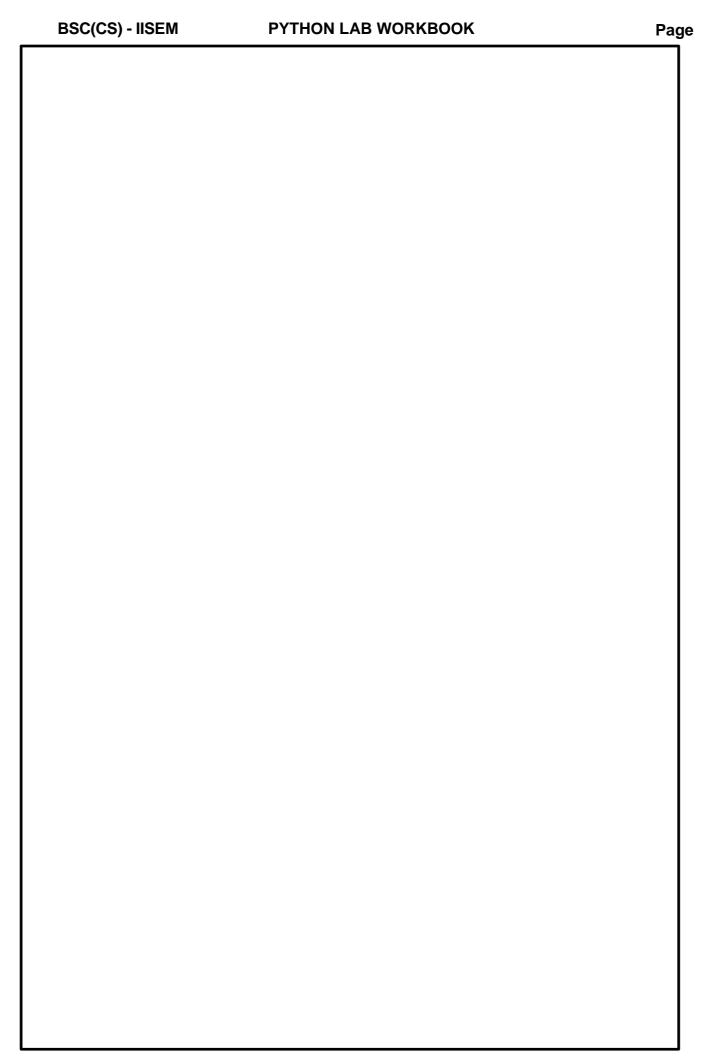


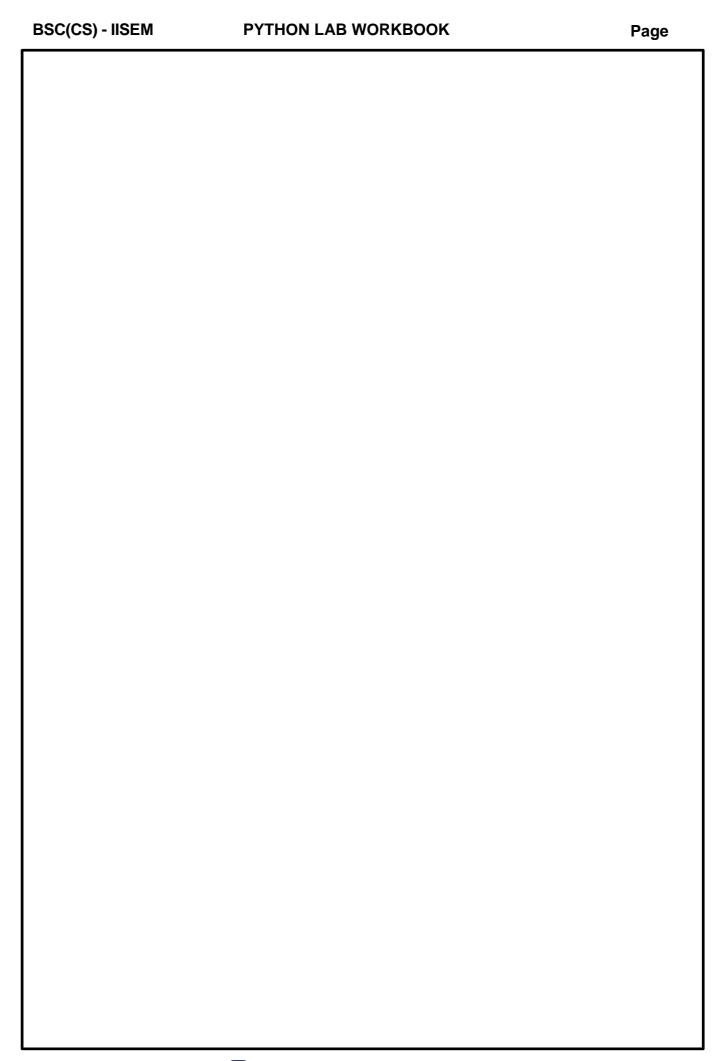
WEEK -12 Lab Exercise Programs DATE: 58) Write a program to Map two lists into a dictionary 59. Program that accept a string as an argument and return the number of vowels and consonants the string contains. 60. Program that accepts two strings S1, S2, and finds whether they are equal are not. ASSESMENT: Question: Employee Salary Calculation System Objective: You need to implement a Salary Calculation System for a company, where the user will input the salaries of multiple employees. The program should: 1. Calculate the total salary expense for the company. 2. Display the highest and lowest salary. 3. Allow the user to input salary details for multiple employees until the user decides to stop. You should use looping statements to: • Collect salary inputs for multiple employees. • Calculate total salary expense.	BSC(CS) - IISEM	PYTHON LAB WORKBOOK	Page
59. Program that accept a string as an argument and return the number of rowels and consonants the string contains. 50. Program that accepts two strings S1, S2, and finds whether they are equal are not. ASSESMENT: Question: Employee Salary Calculation System Objective: You need to implement a Salary Calculation System for a company, where the user will input the salaries of multiple employees. The program should: 1. Calculate the total salary expense for the company. 2. Display the highest and lowest salary. 3. Allow the user to input salary details for multiple employees until the user decides to stop. You should use looping statements to: • Collect salary inputs for multiple employees. • Calculate total salary expense.	WEEK -12	Lab Exercise Programs	DATE:
 3. Allow the user to input salary details for multiple employees until the user decides to stop. You should use looping statements to: Collect salary inputs for multiple employees. Calculate total salary expense. 	59. Program that accept a string owels and consonants the string owels and consonants the string of	ag as an argument and return the number of ing contains. o strings S1, S2, and finds whether they imployee Salary Calculation System ement a Salary Calculation System for a ill input the salaries of multiple employees. alary expense for the company.	
 You should use looping statements to: Collect salary inputs for multiple employees. Calculate total salary expense. 	3. Allow the user to inp	out salary details for multiple employees	
Find the nighest and lowest salary.	You should use looping state • Collect salary inputs	ements to: for multiple employees. y expense.	

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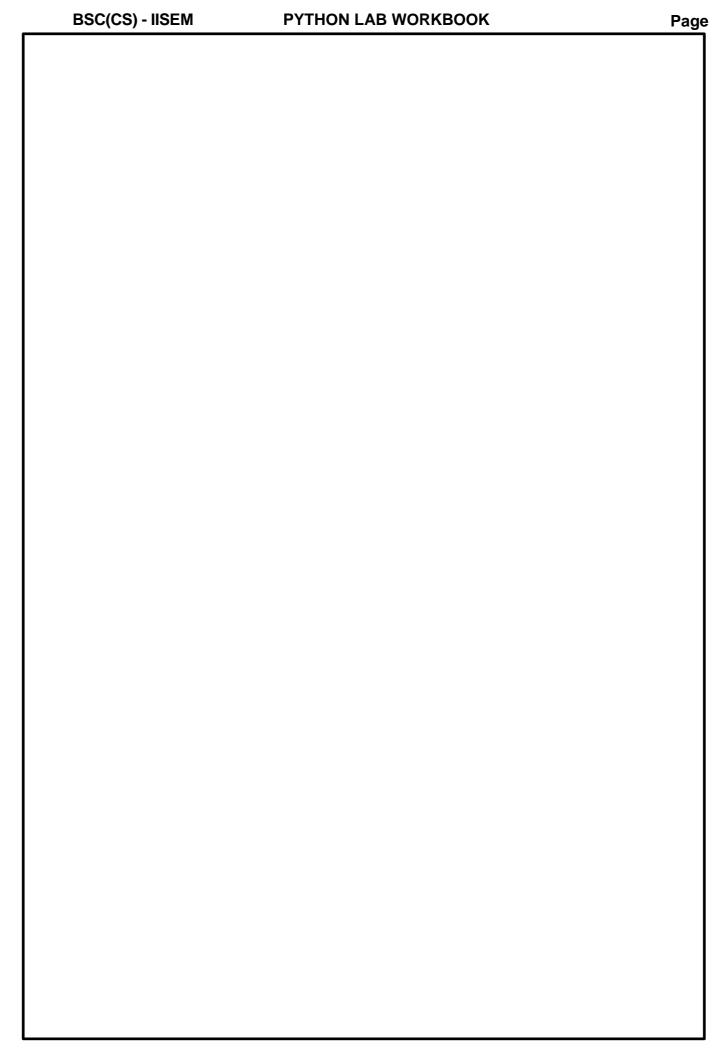
BSC(CS) - IISEM PYTHON LAB WORKBOOK



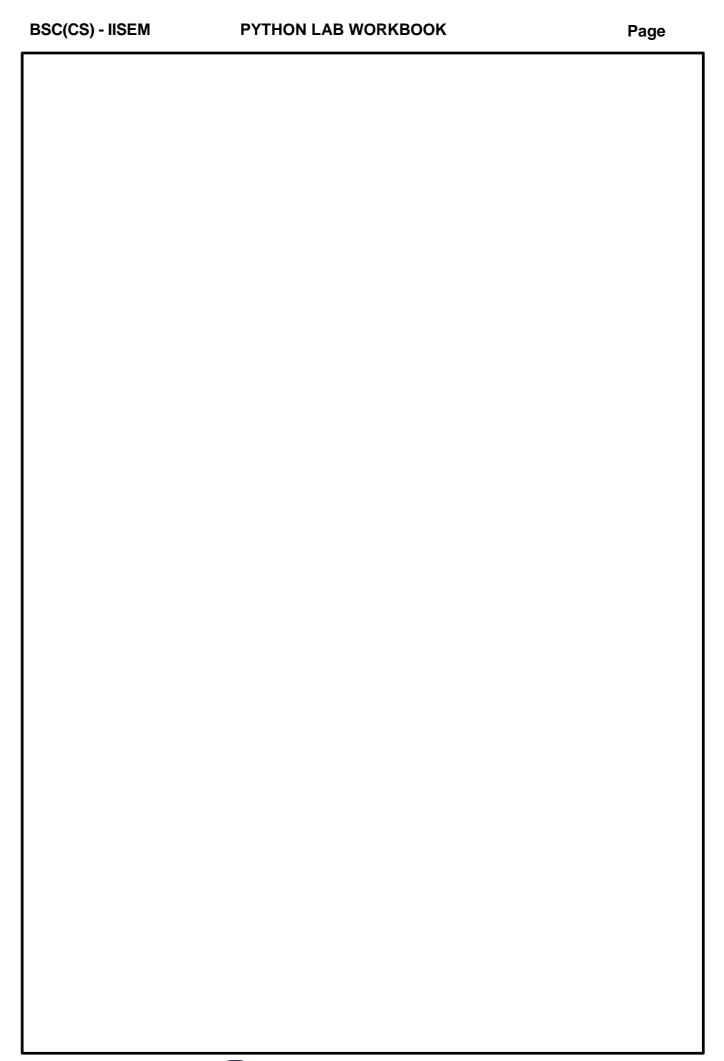








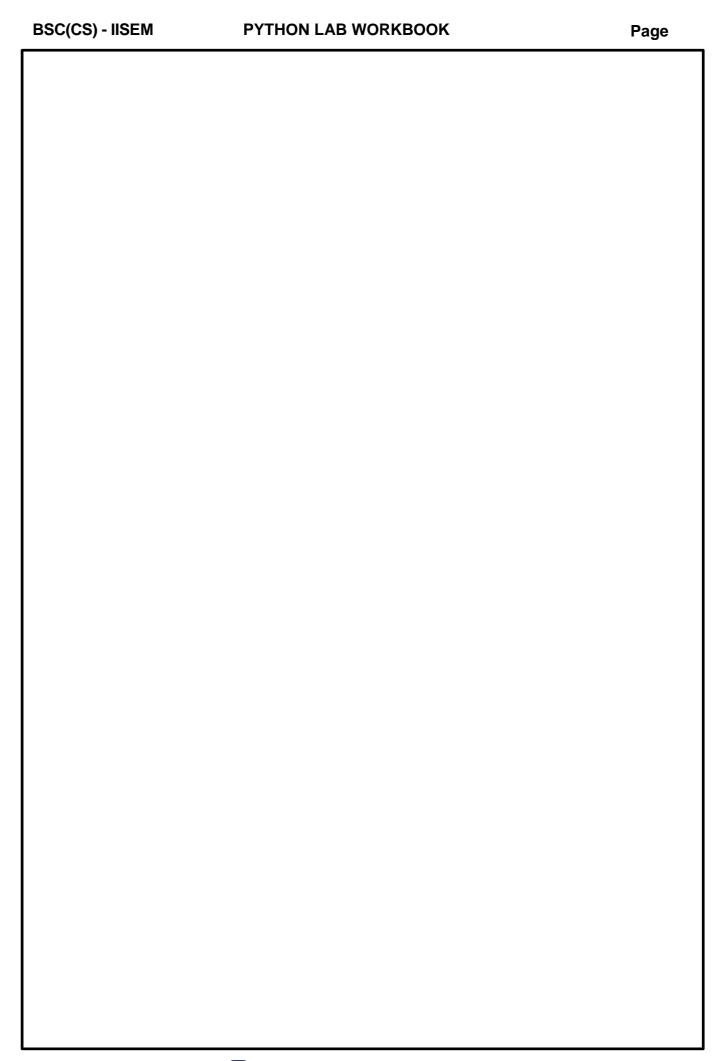
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WEEK -13	Lab Exercise Programs	DATE:
61. Program to count the num	ber of occurrences of characters in a	LAB FACULTY SIGN:
iven string.		
2. Program to Find the maxim	num of a list of numbers	
3. Program to find all duplicat	tes in the list.	
4. Program to find all the uniq	que elements of a list.	
5. Program to find max and m	nin of a given tuple of integers.	CLASS FACULTY SIGN:
66. Program to combine lists L	1 and L2 into a dictionary.	
7.TO FIND THE SUM OF all fo	unctions using list	



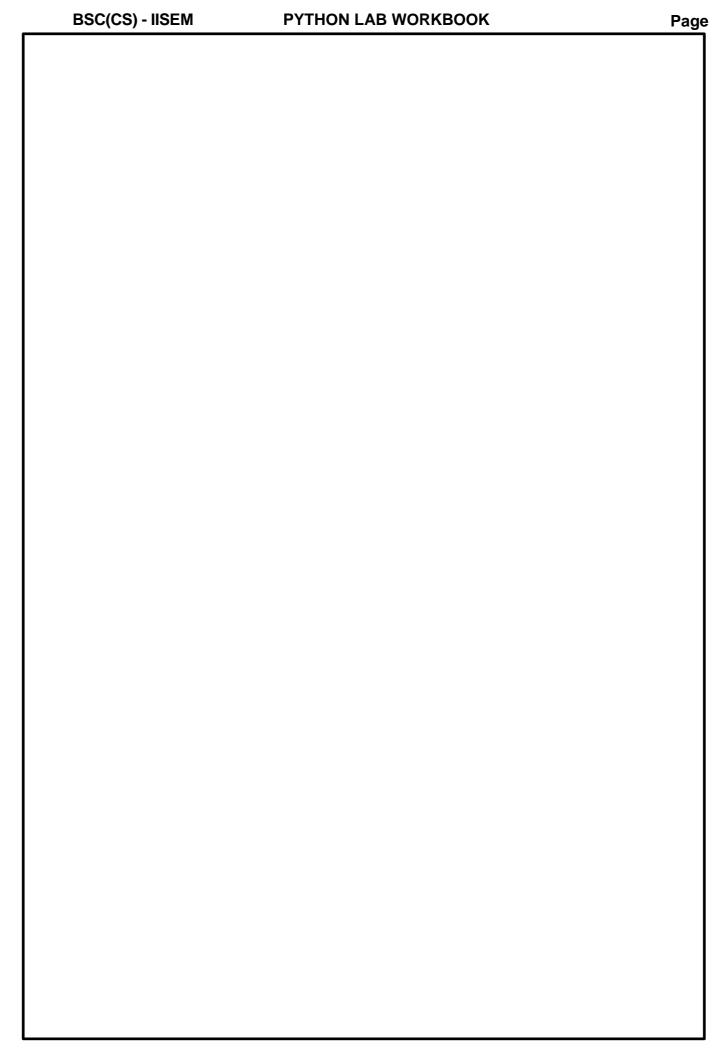


68.To find the maximum of three numbers using functions 69. Write a program to reverse the string 70. To calculate the number of uppercase letters and lower case letters from the given string Problem Statement: Write a Python program with the following functionality: 1. Create an Account: A function to create a new account by storing the account holder's name and an initial balance. 2. Deposit Money: A function to deposit money into an account. 3. Withdraw Money: A function to withdraw money from an account, ensuring the balance does not go negative. Check Balance: A function to display the current balance of an account	WEEK -14	Lab Exercise Programs	DATE:
 Deposit Money: A function to deposit money into an account. Withdraw Money: A function to withdraw money from an account, ensuring the balance does not go negative. 	69. Write a program to reverse the 70. To calculate the number of up from the given string Problem Statement: Write a Python program with the 1. Create an Account: A fu	e string percase letters and lower case letters following functionality: unction to create a new account by storing	
i i i i i i i i i i i i i i i i i i i	2. Deposit Money : A functi	on to deposit money into an account.	
Check Balance: A function to display the current balance of an account	_	•	
	Check Balance: A function to dis	splay the current balance of an account	



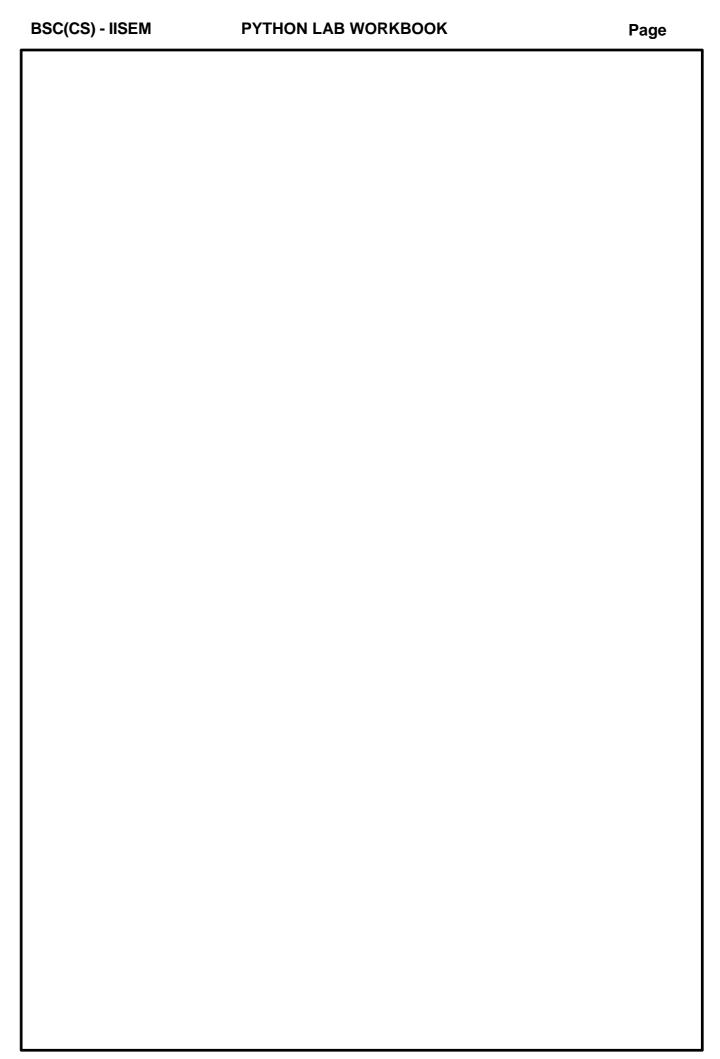




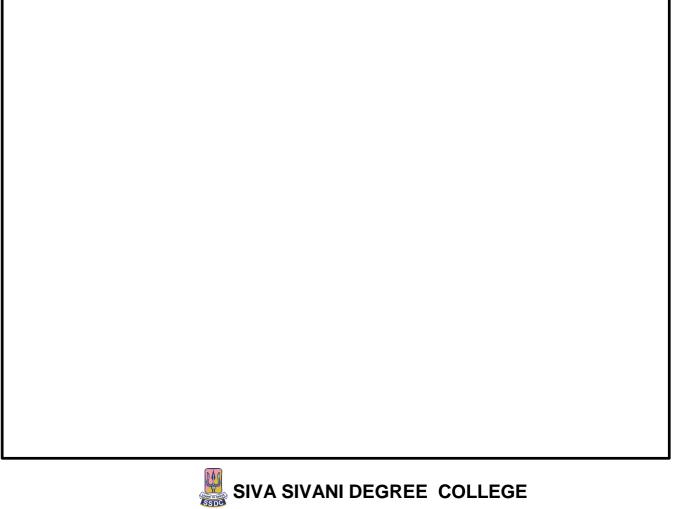


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WEEK -15	Lab Exercise Programs	DATE:
71. Program to find whether	a given string is palindrome or not	LAB FACULTY SIGN:
	here the values are square of numbers	
between 1 and 10		
73.To find the sum of digits of	a number using Functions	
	string without using library function.	
	words and characters present in a string	CLASS FACULTY SIGN:
76.To count the number of vov		
File handling		
	text file and read the data from it.	
78. Write a program to demons		
or write a program to demons		

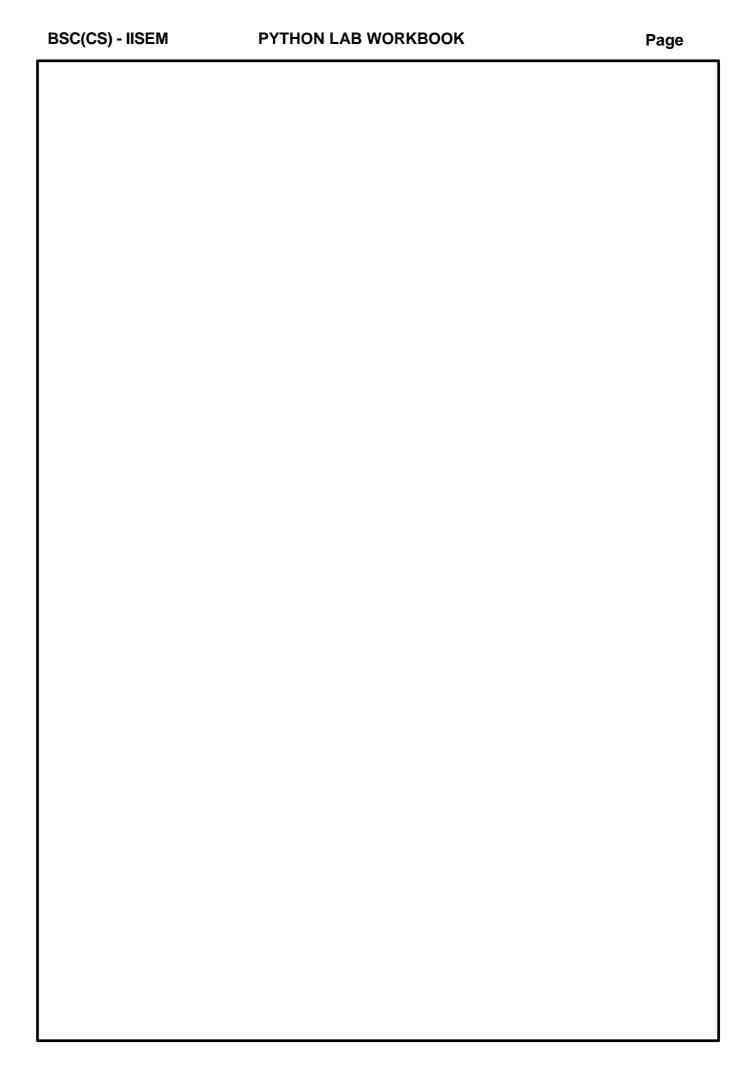




WEEK -16	Lab Exercise Programs	DATE:
79. Write a program to demonstr 80.Write a program to write the 6 81. Write a program to demonstr 82.Write a program to create abo 83. Write a program to read abo.	data into TEXT FILE ate writelines() .txt and read the content from it.	LAB FACULTY SIGN:
Author, and ISBN) to a t	forms the following tasks: action to add a book's details (Title, ext file named library.txt. Each book's on a new line in the format:	CLASS FACULTY SIGN:
	unction to search for a book by its title in matching books with their details.	
3. Display All Books : A futhe library.txt file in a fo	nction to read and display the contents of rmatted way.	
	on to delete a specific book by its ISBN . rite the file without the deleted entry.	



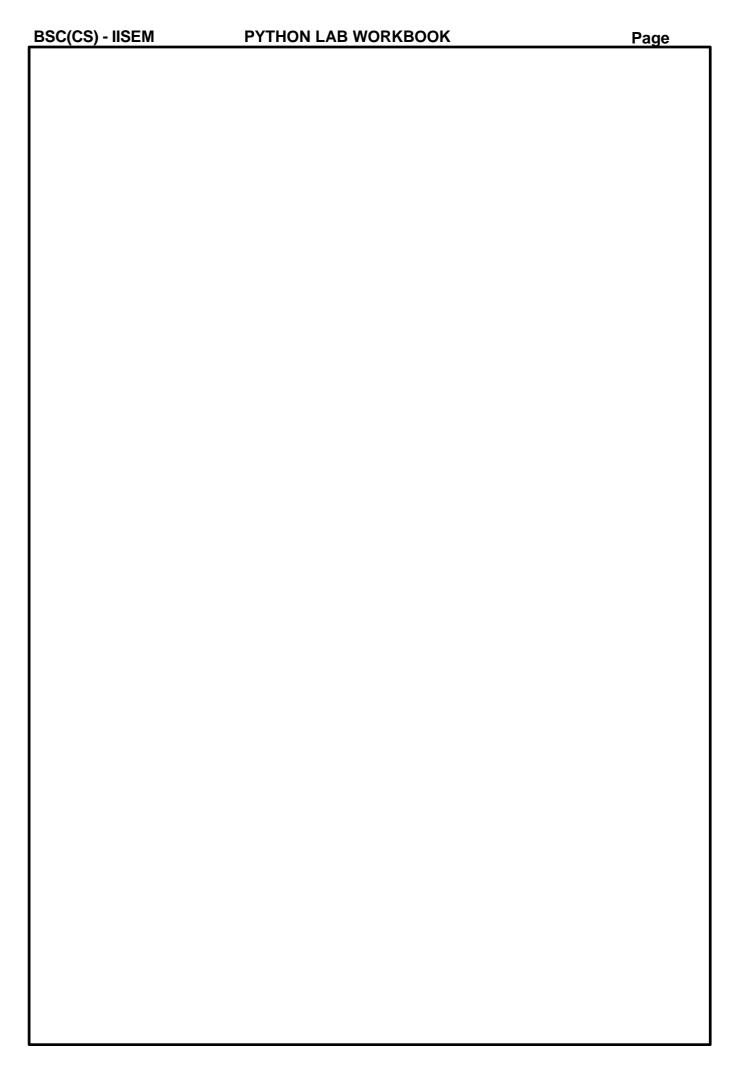


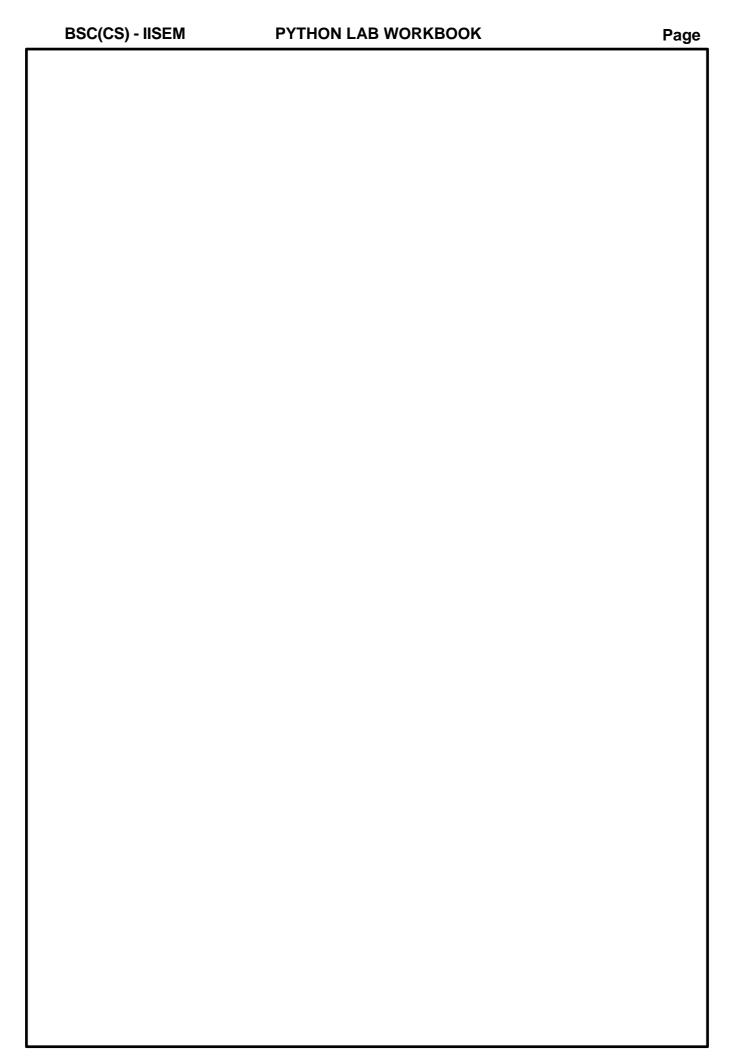


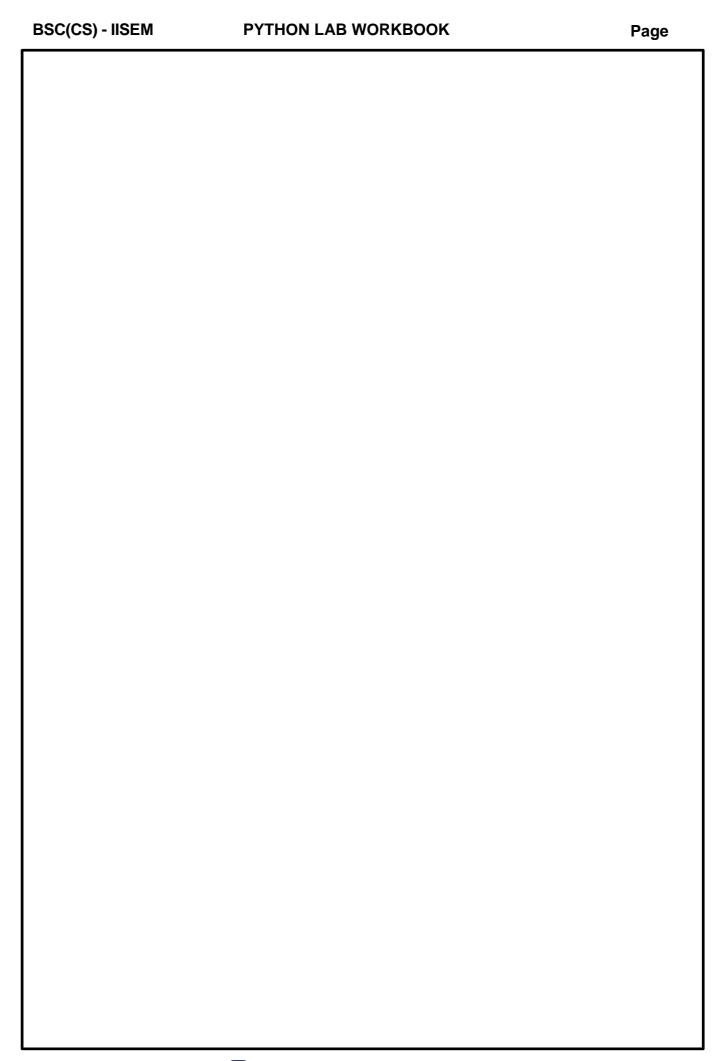


WEEK -17	Lab Exercise Programs	DATE:
84 . Program to implement	t Linear search	LAR FACILITY CICAL
85. Program to implement Binary search.		LAB FACULTY SIGN:
86. Program to implement Se		
87. Program to implement In		
88. Program that takes comn		
count.		01 400 F40111 TV 01011
89. Program to find the most	frequent words in a text read from a file.	CLASS FACULTY SIGN:
90.		
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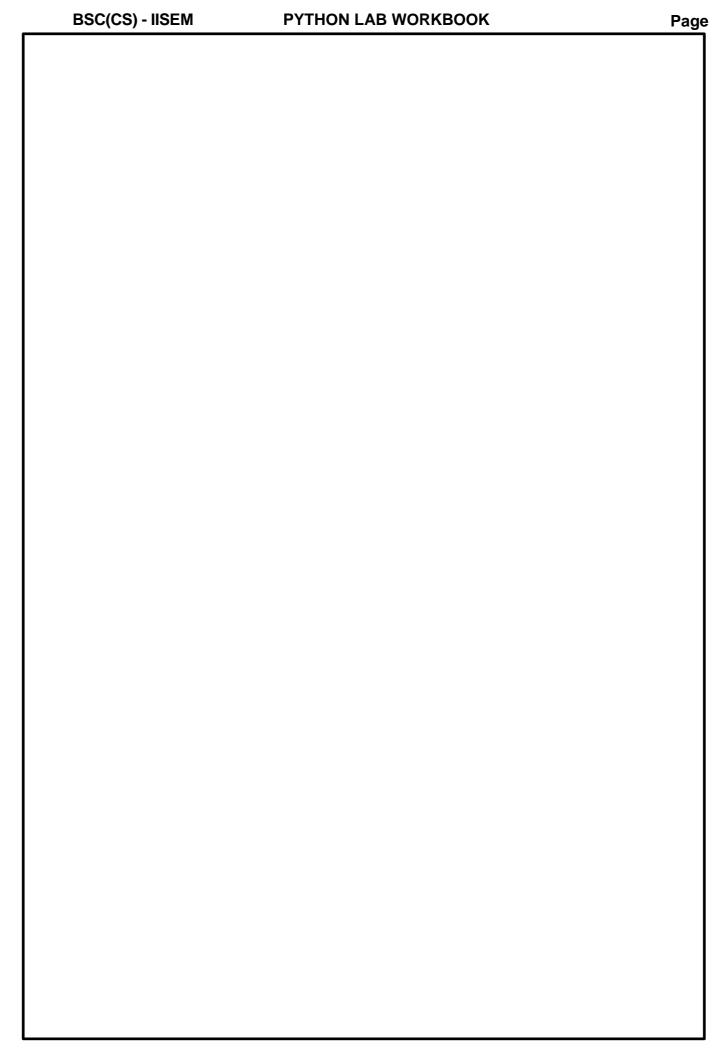


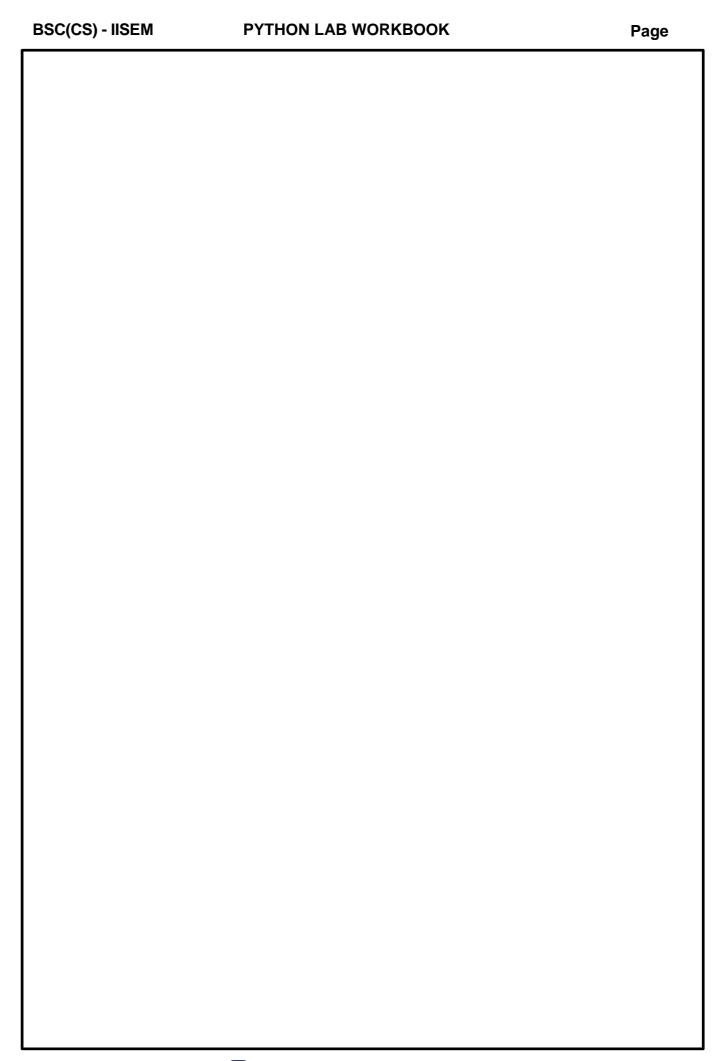




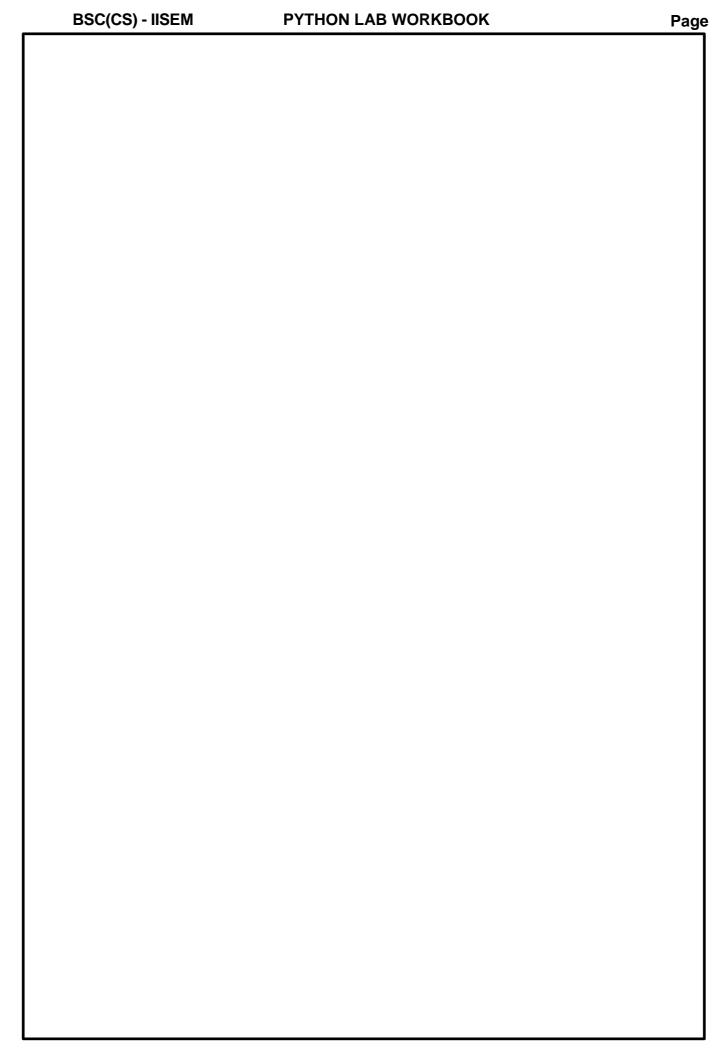












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WEEK -17	Lab Exercise Programs	DATE:
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91.		LABTAGGETT GIGH.
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94.		
95.		CLASS FACULTY SIGN:
96.		CLASSTACOLITISIGN.
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