Roll No:	Name:	PRN No:
Problem Stat		
Implement	a Menu Driven Program for A	arithmetic calculator using class & object & Operator Overloading
Concepts.	_	
Test case:		
	*******MENU*******	
	+ 2 3.* 4./	5. %
•	your choice operator: - First Number:10	
	Second Number:5	
	ction is:5	
	want to continue(Y/N): N	
· · · · · · · · · · · · · · · · · · ·	,	
Roll No:	Name:	PRN No:
<u>Problem Stat</u>	<u>tement 2:</u>	
-	a class Complex which repres	sents the Complex Number data type. Implement the following
operations:		
,	`	tructor which creates the complex number 0+0i).
·	aded operator + to add two cor	-
	aded operator - to add two com	
	aded operator* to multiply two aded << and >> to print and r	
c) overior	tucu \ and > to print and r	cad domplex (valueers.
Roll No:	Name:	PRN No:
<u>Problem Stat</u>	<u>tement 3:</u>	
Implement	a class Quadratic that represe	ents degree two polynomials i.e., polynomials of type ax2+bx+c.
The class w	ill require three data members	corresponding to a, b and c. Implement the following operations:
,	`	nstructor which creates the 0 polynomial).
,	aded operator+ to add two pol	•
·	_	read polynomials. To do this, you will need to decide what you want
•	put and output format to look	
		lue of a polynomial for a given value of x.
e) A funct	tion that computes the two son	utions of the equation ax2+bx+c=0.
Roll No:	Name:	PRN No:
Problem Stat		
		s) with the following capabilities:
	•	,
· · · · · · · · · · · · · · · · · · ·	a constructor that prevents a	0 denominator in a fraction, reduces or simplifies fractions that are
not in r	educed form and avoids negati	<u>.</u>
	reduced form and avoids negati	<u>.</u>

Roll No:				
Problem Statement 6: Imagine a publishing company when publication that stores the title (a state classes: book, which adds a page of float). Write a program that instant	PRN No:			
Problem Statement 7: Create employee bio-data using fold a) Personal record b) Professional record c) Academic record	s and member function to accept required data & print bio-data. Create			
Roll No: Name: Problem Statement 8: Create a class template to represent a) To create the vector. b) To modify the value of a give c) To multiply by a scalar value d) To display the vector	t a generic vector. Include following member functions:			
Problem Statement 9: Implement C++ program using co the specified word. The usage of th	PRN No: mmand line arguments to search for a word in a file and replace it with e program is shown below. d> <new word=""> <file name=""></file></new>			

Roll No.	Nama	PRN No:
		1 IU\ NO;
in a text file "ST Example: If the The roses an A girl is pla There is a p An Aeropla Numbers an	rection in C++ to TORY.TXT". If file "STORY.TX rection rectio	count and display the number of lines not starting with alphabet 'A' present to the following lines, the password. Ction should display the output as 3.
Roll No:	Name:	PRN No:
Problem Statem		
Crete User defin not meet. a) User has	age between 18	wheck the following conditions and throw the exception if the criterion does and 55 tween Rs. $50,000 - \text{Rs.} 1,00,000$ per month
	•	bai/ Bangalore / Chennai
d) User has	•	
<u> </u>	•	e from the user and check for the conditions mentioned above. If any of the
condition not m	et then throw th	e exception.
Roll No:	Name:	PRN No:
Problem Statem		
•	enu driven progr rm 456	am that will create a data file containing the list of telephone numbers in
a) Create R b) Display c) Determin d) Determin	ecord All Records ne the telephone ne the name if tel	et of data, access the file created and implement the following tasks number of specified person ephone number is known
e) Update t	the telephone nui	nber, whenever there is a change.
Roll No:	n template select	PRN No: ion Sort. Write a program that inputs, sorts and outputs an integer array

Roll No: Name: PRN No: Problem Statement 14: Implement a function in C++ to count and display the number of lines not starting with alphabet 'A' present in a text file "STORY.TXT". Example: If the file "STORY.TXT" contains the following lines, The roses are red. A girl is playing there. There is a playground. An Aeroplan is in the sky. Numbers are not allowed in the password. Then the output will be: The function should display the output as 3.					
<u>Problem Statement 15:</u>	PRN No: e a Linked List using STL and perform following operations: 6) Multiply with Scalar value 7) Reverse the order of elements 8) Sort Forward List 9) Merge Sorted Lists 10) Display Forward List				
Problem Statement 16:	PRN No:to add binary numbers (assume one bit as one number); use STL stack.				
Roll No: Name: PRN No: Problem Statements 17: a) Demonstration of command line arguments for renaming of a file name. b) Program for Decimal to Binary Conversion using STL Stack					
Roll No: Name: Problem Statement 18: Program using STL for Sorting and se Person Record (Name, birth date, teld	earching with user-defined records:				

Roll No: Name:	user-defined records:
Roll No: Name:	PRN No.
Problem Statement 20: Program using STL for Sorting and Result Calcula Election Record (voter name, voter id, voter age, va) New Voting b) Display All Voters List c) Display Result	ation with user-defined records:
Roll No: Name:	ulation with user-defined records: Item Name Amount
Roll No: Name:	ll Calculation with user-defined records: Bus Reservation
Roll No: Name: Problem Statement 23:	PRN No:
	numbers (assume one bit as one number); use STL stack.
Roll No: Name: Problem Statement 24: a) Demonstration of command line arguments b) Program for Decimal to Binary Conversion	for renaming of a file name.