C:\Users\sachi\OneDrive\Desktop\Java class\labreport>java Q1_Using
Hello Sir/Madam

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>java Q2_Math num1: 10.5 num2: 5.3 Sum: 15.0 Difference: 5.0

Product: 55.65 Quotient: 1.9811320754716981 Power: 258406.41151994021

Square root of num1: 3.24037034920393 Square root of num2: 2.3021728866442674

Maximum of num1 and num2: 10.5 Minimum of num1 and num2: 5.3 Angle in radians: 0.7853981633974483 Sine value: 0.7071067811865475 Cosine value: 0.7071067811865476 Tangent value: 0.99999999999999 C:\Users\sachi\OneDrive\Desktop\Java class\labreport

>java Q3_Conversion
Integer Object: 42
Double Object: 3.14
Character Object: A
Boolean Object: true

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>java Q4_ObjectToPrimitiveConversion

Int Value: 42 Double Value: 3.14 Char Value: A Boolean Value: true C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q5_CompareTo
First String is lesser than Second

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q6_Equals
Strings are not equal

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q7_parseint
123

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q8_integerToString

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q9_StackImplementation

Stack size: 3 Top element: ! Popped: ! Popped: World Popped: Hello

Stack size after popping: 0

C:\Users\sachi\OneDrive\Desktop\Java class\labreport >java Q10_addMethodInVector Vector elements: [10, 20, 30, 40] Vector elements after adding at index 2: [10, 20, 25, 30, 40] C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q11_Dictionary
Alice's age: 25
Bob's age: 30
Charlie's age: 28
Contains key 'Bob'? true
Contains value 22? false
Hashtable after removing key 'Alice': {Bob=30, Charlie=28}
Bob is 30 years old.
Charlie is 28 years old.

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q12_enum
Midweek!
Days of the week:
SUNDAY
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SATURDAY

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q13_ArrayOfObject

Name: Alice Age: 20

Name: Bob Age: 22

Name: Charlie

Age: 21

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q14_MapInterface
Alice's score: 95
Bob's score: 85
Charlie's score: 75
Contains key 'Alice'? true
Contains value 90? false
Updated Bob's score: 88

Map after removing Charlie: {Bob=88, Alice=95}

Map entries:

Key: Bob, Value: 88 Key: Alice, Value: 95 C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q15_ListInterface
First fruit: Apple
Second fruit: Banana
Third fruit: Orange
Contains 'Apple'? true
Index of 'Banana': 1
List after removing first element and updating secon
d element: [Mango, Orange]
List elements:
Mango
Orange

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>java Q16_ListIterator

Forward traversal: Index: 0, Color: Red Index: 1, Color: Green Index: 2, Color: Blue

Backward traversal: Index: 2, Color: Blue Index: 1, Color: Green Index: 0, Color: Red

List after modifying elements:

RED GREEN BLUE

List after adding new elements:

RED GREEN BLUE Yellow C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java 017_SetinJava

Added duplicate 'Alice'? false

Contains 'Bob'? true Removed 'Alice'? true

Set elements:

Bob Charlie

Set after clearing all elements: []

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>java Q18_Arraylist

ArrayList: [10, 20, 30, 40] Size of ArrayList: 4 First number: 10

List after clearing all elements: []

Modified ArrayList: [10, 25, 30, 40]

Contains 30? true Index of 40: 3

Sorted ArrayList: [10, 25, 30, 40]

Removed 25? true

ArrayList after removal: [10, 30, 40]

ArrayList after clearing: []

C:\Users\sachi\OneDrive\Desktop\Java class\labreport >java Q19_linkedList LinkedList: [Alice, Bob, Charlie] Size of LinkedList: 3 First element: Alice Modified LinkedList: [Alice, Barbara, Charlie] Contains 'Charlie'? true Index of 'Barbara': 1 LinkedList after adding at the beginning: [Alex, Ali ce, Barbara, Charlie] LinkedList after adding at the end: [Alex. Alice. Ba rbara, Charlie, David] Removed first element: Alex LinkedList after removing first: [Alice, Barbara, Ch arlie. Davidl Removed last element: David LinkedList after removing last: [Alice, Barbara, Cha

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>java Q22_Iterator
List elements using Iterator:
Apple
Banana
Orange
List after removing 'Banana': [Apple, Orange]

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q20_Hashset
HashSet: [Red, Blue, Green]
Added duplicate 'Red'? false
Contains 'Green'? true
Removed 'Blue'? true
HashSet elements:
Red
Green
HashSet after clearing: []

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q21_treeSet
TreeSet: [10, 20, 30]
Added duplicate 10? false
Contains 30? true
Removed 20? true
TreeSet elements:
10
30
TreeSet after clearing: []

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q23_Comparator
Sorted students by age:
Name: Alice, Age: 20

Name: Charlie, Age: 21 Name: Bob, Age: 22

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q24_Hashtable
Alice's score: 95
Contains 'Bob'? true
Contains score 75? true
Hashtable after removing 'Charlie': {Bob=85, Alice=95}
Hashtable key-value pairs:
Key: Bob, Value: 85
Key: Alice, Value: 95
Hashtable after clearing: {}

C:\Users\sachi\OneDrive\Desktop\Java class\labreport
>java Q25_Treemap
TreeMap: {Alice=95, Bob=85, Charlie=75}
Alice's score: 95
Contains 'Bob'? true
Contains score 75? true
TreeMap after removing 'Charlie': {Alice=95, Bob=85}
TreeMap key-value pairs:
Key: Alice, Value: 95
Key: Bob, Value: 85
TreeMap after clearing: {}