<table>
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FAMT
www.famt.ac.in</td><td colspan="2">HOPE Foundation's</td></tr>
<tr><td colspan="2">Finolex Academy Of Management And Technology, Ratnagiri</td></tr>
</table>

	Department of MCA	
Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 1	Name of Student: Shruti Dnyaneshwar Anabhavane	
Experiment No: **01**		Quiz Score: 6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 2	Name of Student: Indranil Suresh Angolkar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
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	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 3	Name of Student: Om Rajesh Awasare	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 5	Name of Student: Ruchita pravin Belosay	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
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2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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<tr><td rowspan="3">FAMT</td><td colspan="3" style="text-align:center">HOPE Foundation's</td></tr>
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<tr><td colspan="3" style="text-align:center">Department of MCA</td></tr>
<tr><td>Course Code: MCAL11</td><td colspan="3">Course Name: Data Structures Lab using C/C++</td></tr>
<tr><td>Class: FYMCA</td><td colspan="2">Semester: I CBCGS (1 Year MCA)</td><td>Academic Year: 2023-24</td></tr>
<tr><td>Roll No: 6</td><td colspan="3">Name of Student: Pravat Bera</td></tr>
<tr><td>Experiment No: 01</td><td colspan="2">Quiz Score:</td><td>5</td></tr>
<tr><td colspan="4">Name of Experiment: Introduction to Sorting Algorithm</td></tr>
<tr><td colspan="4">Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.</td></tr>
<tr><td colspan="4">Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.</td></tr>
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Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, T, H, K , L , N , V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA		
Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**		
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**		Academic Year: **2023-24**
Roll No: 7	Name of Student: Hafsa Muneer Bhatkar		
Experiment No: **01**		Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**			
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.			
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.			

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 8	Name of Student: Atharva Sandip Bhatye	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 9	Name of Student: Suchit bhonkar	
Experiment No: **01**	Quiz Score:	4
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, T, H, K , L , N , V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	12
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	4	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 10	Name of Student: Bhavesh Atmaram Chaugule	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's		
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	Department of MCA		
Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**		
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**		Academic Year: **2023-24**
Roll No: 11	Name of Student: Pranay Sharad Chavan		
Experiment No: **01**		Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**			
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.			
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.			

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters		Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)		6	6
2	Neatness/Presentation			2
3	Punctuality			2
Date of Execution (DOE)		Total Marks Obtained		10
Date of Assessment (DOA)		Signature of Teacher		

	HOPE Foundation's
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 12	Name of Student: Sahil sandip chavan	
Experiment No: **01**	Quiz Score:	5
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	13
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
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	HOPE Foundation's
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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 13	Name of Student: Nitant Naresh Deulkar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
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3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 14	Name of Student: Yuvaraj Dattaram Dhanavade	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
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Date of Execution (DOE)		Total Marks Obtained	10
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 17	Name of Student: Tejal Sakharam Ghadi	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
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Date of Execution (DOE)		Total Marks Obtained	10
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 18	Name of Student: Vaishnavi Prabhakar Ghag	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 19	Name of Student: Chandan Bhagwan Howale	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 20	Name of Student: Uzaif Rafiq Isani	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 21	Name of Student: Sumit Deepak Jakhal	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
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6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 22	Name of Student: Neha prakash jog	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
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6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 23	Name of Student: Vishal	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

<table>
<tr><td rowspan="2">
FAMT
www.famt.ac.in</td><td colspan="3">HOPE Foundation's</td></tr>
<tr><td colspan="3">**Finolex Academy Of Management And Technology, Ratnagiri**</td></tr>
<tr><td colspan="4" style="text-align:center">**Department of MCA**</td></tr>
<tr><td>Course Code: **MCAL11**</td><td colspan="3">Course Name: **Data Structures Lab using C/C++**</td></tr>
<tr><td>Class: **FYMCA**</td><td colspan="2">Semester: **I CBCGS (1 Year MCA)**</td><td>Academic Year: **2023-24**</td></tr>
<tr><td>Roll No: 24</td><td colspan="3">Name of Student: Tanmay shrikant jogalekar</td></tr>
<tr><td>Experiment No: **01**</td><td colspan="2">Quiz Score:</td><td>5</td></tr>
<tr><td colspan="4">Name of Experiment: **Introduction to Sorting Algorithm**</td></tr>
<tr><td colspan="4">Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.</td></tr>
<tr><td colspan="4">Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.</td></tr>
</table>

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	13
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 24	Name of Student: Shiwali kamble	
Experiment No: **01**		Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 25	Name of Student: Sanika Joshi	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters		Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)		6	6
2	Neatness/Presentation			2
3	Punctuality			2
Date of Execution (DOE)		Total Marks Obtained		10
Date of Assessment (DOA)		Signature of Teacher		

	HOPE Foundation's
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 27	Name of Student: Karale Sanika Bhavesh	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 28	Name of Student: Abdullah	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 30	Name of Student: Prathamesh laxman khape	
Experiment No: **01**		Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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<tr><td colspan="3" rowspan="3"><img/>FAMT</td><td>HOPE Foundation's</td></tr>
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<tr><td>Department of MCA</td></tr>
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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**

Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**

Roll No: 31	Name of Student: Rahul Ramesh Khedekar

Experiment No: **01**	Quiz Score:	6

Name of Experiment: **Introduction to Sorting Algorithm**
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 32	Name of Student: Aafan Ashraf Kotawdekar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 33	Name of Student: Saabiqah Kotawdekar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 34	Name of Student: Prasad Shivaji Kumbhar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 35	Name of Student: Nazrana Hamid kurawle	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 36	Name of Student: Aditya Yashwant Main	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Finolex Academy Of Management And Technology, Ratnagiri
	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 37	Name of Student: Onkar Rajan Malawade	
Experiment No: **01**	Quiz Score:	5
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Insertion Sort
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3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 38	Name of Student: Neha Prafulla Malgaonkar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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<td>Academic Year: 2023-24</td>
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<tr>
<td>Roll No: 39</td>
<td colspan="3">Name of Student: Esha Ravindra Mandavkar</td>
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<tr>
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<td colspan="2">Quiz Score:</td>
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<td colspan="4">Name of Experiment: Introduction to Sorting Algorithm</td>
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<td colspan="4">Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.</td>
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Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 40	Name of Student: Rashmi Ravindra More	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 41	Name of Student: Rupali Ramchandra More	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
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4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 42	Name of Student: maahin imtiyaz mulla	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 43	Name of Student: Sayali Sujit Mungekar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 45	Name of Student: Satyajit Panchal	
Experiment No: **01**	Quiz Score:	5
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
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4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	13
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 46	Name of Student: Kaustubh parab	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 47	Name of Student: Kunal Parab	
Experiment No: **01**	Quiz Score:	5
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 48	Name of Student: Sejal Vishwajeet Parab	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's		
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	Department of MCA		
Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**		
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**		Academic Year: **2023-24**
Roll No: 49	Name of Student: Riza Samad Patankar		
Experiment No: **01**		Quiz Score:	5
Name of Experiment: **Introduction to Sorting Algorithm**			
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.			
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.			

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 50	Name of Student: Dhruv Manohar Patel	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 51	Name of Student: Uma Ishwar Patel	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 52	Name of Student: Akshada Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 53	Name of Student: Jyotiraditya	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 54	Name of Student: Pranali Tanaji Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 55	Name of Student: Prathamesh Tatyaso Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 56	Name of Student: Sarthak Ashutosh Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 57	Name of Student: Sneha Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 58	Name of Student: Swapnali Jayawant Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 59	Name of Student: Vaishnavi Patil	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 60	Name of Student: Mithil Suresh Pawar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
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Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 61	Name of Student: Rahul Umesh Pawar	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 62	Name of Student: Deepak Jagannath Pirankar	
Experiment No: **01**		Quiz Score: 6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

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Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 63	Name of Student: Gayatri Manik Rane	
Experiment No: **01**	Quiz Score:	6
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
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3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, H, K, T, L, N, V
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	6	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	

	HOPE Foundation's
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	Department of MCA

Course Code: **MCAL11**	Course Name: **Data Structures Lab using C/C++**	
Class: **FYMCA**	Semester: **I CBCGS (1 Year MCA)**	Academic Year: **2023-24**
Roll No: 0	Name of Student: Vaibhav Prakash Bagave	
Experiment No: **01**	Quiz Score:	5
Name of Experiment: **Introduction to Sorting Algorithm**		
Lab Objective applicable: Study Sorting, Searching and hashing techniques along with collision resolution methods for hashing.		
Lab Outcome applicable: Apply Sorting, Searching and Hashing techniques to various data and handle to the collision occurred in hashing.		

Details of Quiz:

Q. No.	Question	Correct Answer	Given Answer
1	Comperes pair of items and swaps them if they are in the wrong order. Each pair in the list is checked.	Bubble Sort	Bubble Sort
2	Which is non-comparative sorting algorithm	Radix sort	Radix sort
3	Sort the following list using the Selection Sort Algorithm H,V,A,T,L,N,K What is the output of the algorithm of third pass	A, H, K, T, L, N, V	A, V, H, T, L, N,K
4	If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?	Insertion Sort	Insertion Sort
5	The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is	10	10
6	6. Shell sort is a generalization of.	Insertion Sort	Insertion Sort

Assignment/Experiment Evaluation:

Sr. No.	Parameters	Marks Obtained	Out of
1	Technical Understanding (Assessment based on Q and A through online quiz)	5	6
2	Neatness/Presentation		2
3	Punctuality		2
Date of Execution (DOE)		Total Marks Obtained	10
Date of Assessment (DOA)		Signature of Teacher	