1. **Write a java program to implement Binary Search.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Merge Sort.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Quick Sort algorithm using Divide & Conquer approach.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement 0/1 Knapsack problem by using Greedy Method.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Prim’s algorithm.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program that implements Kruskal’s algorithm to generate a minimum cost spanning tree.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement the backtracking algorithm for the Sum of Subsets problem.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement the backtracking algorithm for the Hamiltanian Circuit problem.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Binary Search.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Merge Sort.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Quick Sort algorithm using Divide & Conquer approach.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement 0/1 Knapsack problem by using Greedy Method.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement Prim’s algorithm.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program that implements Kruskal’s algorithm to generate a minimum cost spanning tree.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement the backtracking algorithm for the Sum of Subsets problem.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**

1. **Write a java program to implement the backtracking algorithm for the Hamiltanian Circuit problem.**

**i)Aim**

**ii)Description**

**iii)Algorithm**

**iv)Example**

**v)program**

**vi)Expected Input and output**

**vii)Results**