

DAA practical exam

Himanshu chadha

19020570016

Outputs:-

Q1:-

```
Red Black Tree created successfully.

Please Enter your choice :-
1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.
1

Enter the number to be inserted in tree : 2
Data inserted in tree successssfully.

Please Enter your choice :-
1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.
1

Enter the number to be inserted in tree : 4
Data inserted in tree successssfully.

Please Enter your choice :-
1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.
1

Enter the number to be inserted in tree : 6
Data inserted in tree successssfully.
```

Please Enter your choice :-

1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.

2

Enter number to be deleted : 4

Data deleted from tree successsfully.

Please Enter your choice :-

1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.

3

Enter number to be searched : 6

DATA FOUND. COLOR OF THE NODE IS : BLACK

Please Enter your choice :-

1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.

3

Enter number to be searched : 4

ERROR : DATA NOT FOUND.

Please Enter your choice :-

1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.

1

Enter the number to be inserted in tree : 4

Data inserted in tree successssfully.

Please Enter your choice :-

1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.

3

Enter number to be searched : 4

DATA FOUND. COLOR OF THE NODE IS : BLACK

Please Enter your choice :-

1. Insert data in tree.
2. Delete data from the tree.
3. Search for data in the tree.
4. Create new tree.

Press any other button to exit.

Q2:-

```
Enter the no. of vertices : 4
Enter the no. of edges : 5
Enter the no. from which graph starts : 1
Press 0 to enter edges manually or Press 1 to enter edges with help : 1

Enter weight of the edge between 1 and 1 vertices :(0 if no edge present) : 2
Enter weight of the edge between 1 and 2 vertices :(0 if no edge present) : 3
Enter weight of the edge between 1 and 3 vertices :(0 if no edge present) : 4
Enter weight of the edge between 1 and 4 vertices :(0 if no edge present) : 3
Enter weight of the edge between 2 and 2 vertices :(0 if no edge present) : 5
Enter weight of the edge between 2 and 3 vertices :(0 if no edge present) : 6
Enter weight of the edge between 2 and 4 vertices :(0 if no edge present) : 2
Enter weight of the edge between 3 and 3 vertices :(0 if no edge present) : 4
Enter weight of the edge between 3 and 4 vertices :(0 if no edge present) : 6
Enter weight of the edge between 4 and 4 vertices :(0 if no edge present) : 2
Edge      Weight
1 - 2      3
1 - 3      4
2 - 4      2

Press 1 to search again / any other key to exit :
```

Q3:-