**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 1

**how many elements you want to construct tree :** 8

**Enter value :** 31

**Enter value :** 65

**Enter value :** 3

**Enter value :** 10

**Enter value :** 5

**Enter value :** 100

**Enter value :** 3

**Enter value :** 12

**Tree Constructed Successfully**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 2

**Enter the key to insert:** 55

**The parent of 55 is 65**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 3

**3 3 5 10 12 31 55 65 100**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 4

**Enter the key to search its parent:** 12

**The parent of 12 is 10**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 4

**Enter the key to search its parent:** 31

**31 is root node**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 2

**Enter the key to insert:** 1

**The parent of 1 is 3**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 3

**1 3 3 5 10 12 31 55 65 100**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 2

**Enter the key to insert:** 500

**The parent of 500 is 100**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 3

**1 3 3 5 10 12 31 55 65 100 500**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 4

**Enter the key to search its parent:** 5

**The parent of 5 is 10**

**<=====BINARY SEARCH TREE=====>**

**1.Construct List**

**2.Insert a single Element**

**3.LIST values**

**4.Search Parent**

**5.Delete Element**

**6.Exit**

**Input your choice :** 6

**Program ended with exit code: 1**