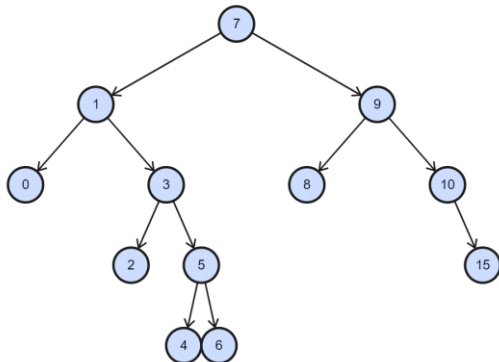## Binary Search Trees – Insertion

Student Name: _____

For the given trees, insert the specified nodes, by showing the Insertion Paths for each:
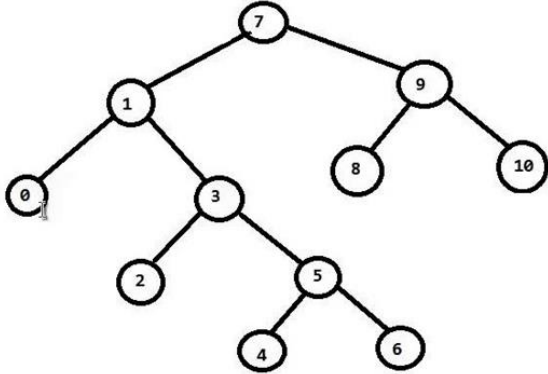
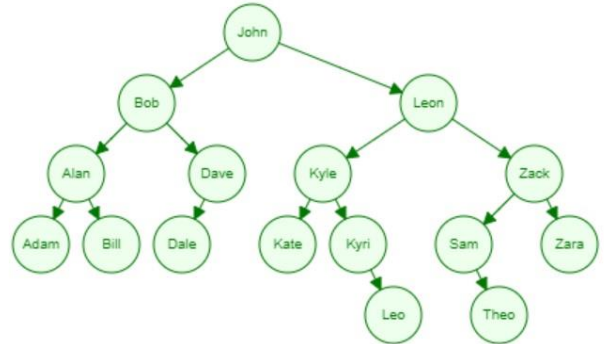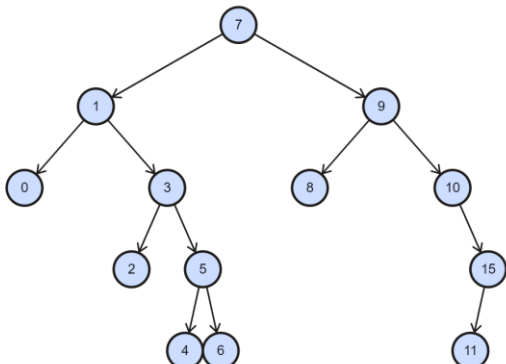**Insert Node 15**
- **Insertion Path = Root: 7 → Right: 9 → Right: 10 → Right: Null**
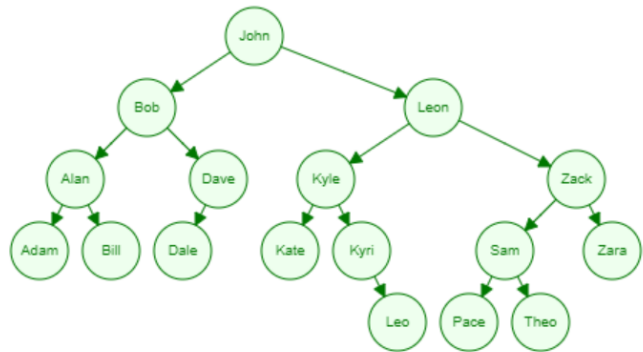- **So insert Node 15 to the right of Node 10**

Insert Node 11
- **Insertion Path = Root: 7 → Right: 9 → Right: 10 → Right: 15 → Left: Null**
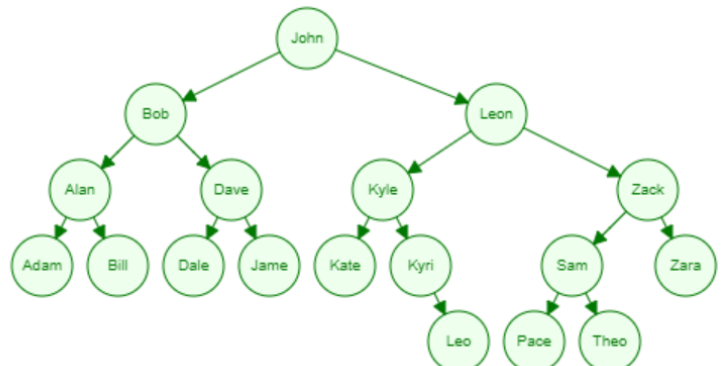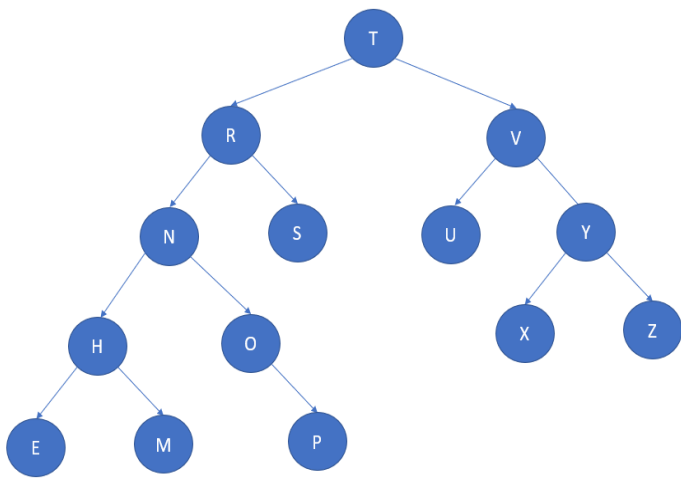- **So insert Node 11 to the left of Node 15**

Insert Pace:
- **Insertion Path = Root: John → Right: Leon → Right: Zack → Left: Sam → Left: Null**
- **So insert Pace to the left of Sam**
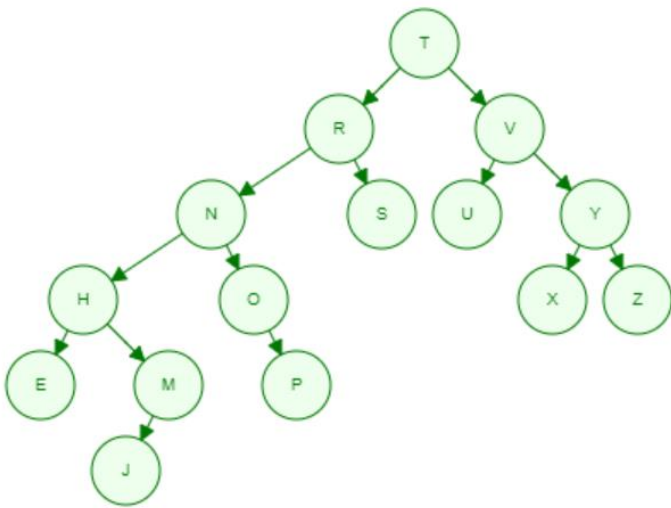

Insert James:
- **Insertion Path = Root: John → Left: Bob → Right: Dave → Right: Null**
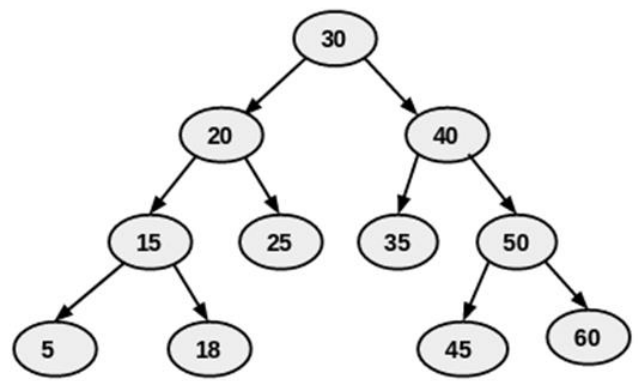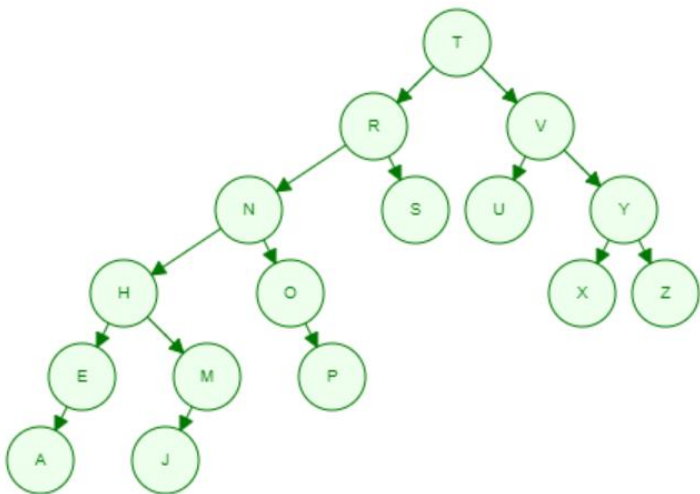- **So insert James to the right of Dave**

Insert J

- **Insertion Path = Root: T → Left: R → Left: N → Left: H → Right: M → Left: Null**
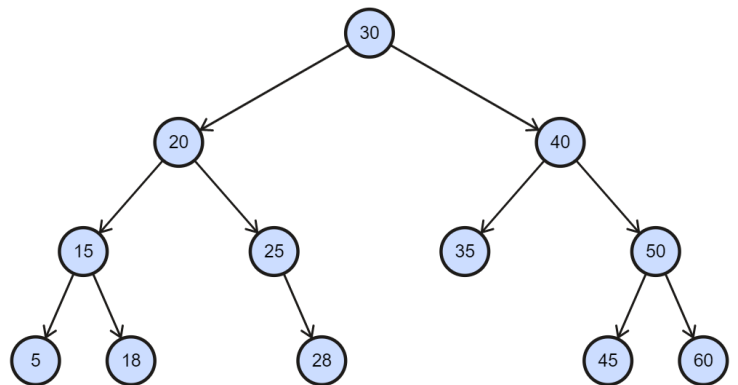- **So insert Node J to the left of Node M**

Insert A

- **Insertion Path = Root: T → Left: R → Left: N → Left: H → Left: E → Left: Null**
- **So insert Node A to the left of Node E**

Insert 28

- **Insertion Path = Root: 30 → Left: 20 → Right: 25 → Right: Null**
- **So insert Node 28 to the right of Node 25**

Insert 33

- **Insertion Path = Root: 30 → Right: 40 → Left: 35 → Left: Null**
- **So insert Node 33 to the left of Node 35**