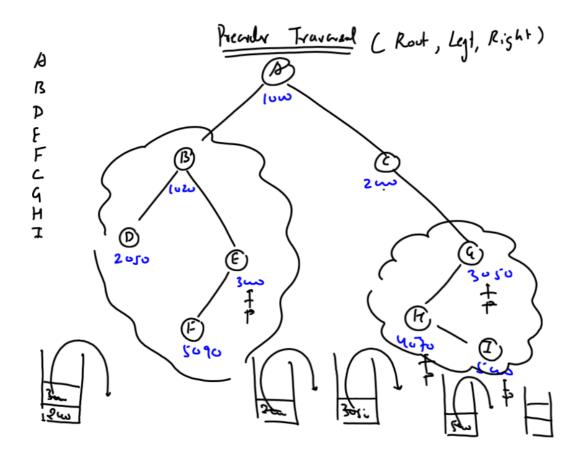
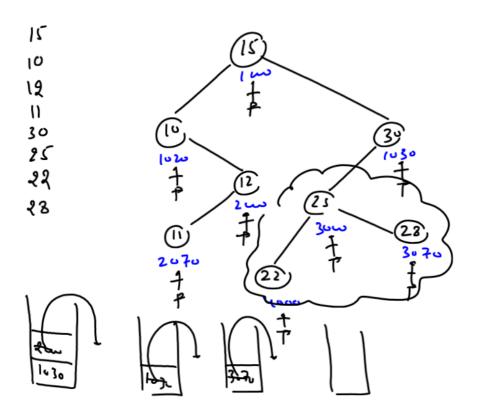
```
Creating & BST
                                                     temp=*ps;
void add(struct bst **ps,int x)-
                                                     while(temp!=NULL)
  struct bst *p,*temp,*prev;
                                                       prev=temp;

    p=(struct bst *)malloc(sizeof(struct bst));
                                                       if(temp->data>x)
 if(p==NULL)
                                                          temp=temp->left;
   printf("Insufficient Memory");
                                                       else
   return;
                                                          temp=temp->right;
p->data=x;
                                                     if(prev->data>x)
p->left=p->right=NULL;
                                                         prev->left=p;
if(*ps==NULL)
  *ps=p;
                                                        prev->right=p;
  return;
                                                     }
```

## REE TRAVERIAL BLUCKITHMS

- ( Rat, lyt, Right)
- @ Inorder Traversul ( Legt, Rut, Right)
- @ Postcruby Transpard ( Egt, Right, Reut)





## Algorithm For Preorder Traversal

\_\_\_\_\_

- Check whether the TREE is empty or not.
- 2. If it is empty, then print EMPTY TREE and return.
- 3. Starting from the ROOT node do the following:
  - a. Print the CURRENT node data
  - b. If the node has right child, then PUSH it in the STACK
  - c. Move towards LEFT
- 4. Repeat sept 3 until POINTER becomes NULL.
- 5.Check the STACK:
  - a. If it is EMPTY then FINISH and return.
  - b. POP the top node from the STACK and goto STEP 3

## **IMPLEMENTING PEORDER TRAVERSAL**

```
struct bst
                                                        int main()
  struct bst *left;
                                                          struct bst *root=NULL;
 int data;
 struct bst *right;
                                                          add(&root,15);
};
                                                          add(&root,10);
struct Stack
                                                          add(&root,12);
  struct bst * arr[10];
                                                          preorder(root);
  int tos;
                                                          return 0;
void push(struct Stack *,struct bst *);
                                                        }
struct bst * pop(struct Stack *);
void add(struct bst **,int);
void preorder(struct bst *);
```