## Assignment-3 Ayush garg(1024030878)



Q1

```
main() {
Stack s;
int choice, value;
                                                                                                                                                     1. Push
2. Pop
3. Peek
4. isEmpty
5. isFull
6. Display
0. Exit
Enter choice: 4
Stack is not empty
      switch (choice) {
case 1:
cout << "Enter value: ";
cin >> value;
s.push(value);
break;
                                                                                                                                                    1. Push
2. Pop
3. Peek
4. isEmpty
5. isFull
6. Display
0. Exit
Enter choice: 5
Stack is not full
            s.pop();
break;
       case 3:
s.peek();
break;
                                                                                                                                                      ---- Stack Menu
1. Push
2. Pop
3. Peek
                                                                                                                                                      4. isEmpty
5. isFull
0. DISPIA
         cout << (s isFull() 2 "Stack
s.push(value),
break;
                                                                                                                                                      0. Exit
Enter choice: 5
Stack is not full
            s.pop();
break;
           s.peek();
break;
                                                                                                                                                           --- Stack Menu ---
                                                                                                                                                    ---- Stack Menu
1. Push
2. Pop
3. Peek
4. isEmpty
5. isFull
6. Display
0. Exit
Enter choice: 0
Exiting
             s.display();
break;
```

## Q2

```
Enter expression: (]
Not Balanced
      }
int main() {
    string expr;
    cout << "Enter expression: ";
    cin >> expr;
    if (isBalanced(expr))
        cout << "Balanced(n";
    else
        cout << "Not Balanced\n";</pre>
```

## Q4

