Program8: Insert and Remove Elements in Stack

```java
package mounika8;
public class Stack
{
    static final int MAX = 1000;
    int top;
    int a[] = new int[MAX];
    boolean isEmpty()
    {
        return (top < 0);
    }
    Stack()
    {
        top = -1;
    }
    boolean push(int x)
    {
        if (top >= (MAX-1))
        {
            System.out.println("Stack Overflow");
            return false;
        }
        else
        {
            a[++top] = x;
            System.out.println(x + " pushed into stack");
            return true;
        }
    }
    int pop()
    {
        if (top < 0)
        {
            System.out.println("Stack Underflow");
            return 0;
        }
        else
        {
            int x = a[top--];
            return x;
        }
    }

    public static void main(String args[])
    {
        Stack s = new Stack();
        s.push(67);
        s.push(4000);
        s.push(678);
        System.out.println(s.pop() + " Popped from stack");
    }
}
```

Project Explorer structure:

- src
  - mounika7
    - DLL.java
- fourthsmallest
  - JRE System Library [JavaSE-1.8]
  - src
    - mounika2
      - Main.java
- linkedlist
  - JRE System Library [JavaSE-1.8]
  - src
    - mounika5
      - LinkedList.java
- multiplematrices
  - JRE System Library [JavaSE-1.8]
  - src
    - mounika4
      - MultiplyMatrices.java
- rangequeri
  - JRE System Library [JavaSE-1.8]
  - src
    - mounika3
      - RangeQueries.java
- rightrotate
  - JRE System Library [JavaSE-1.8]
  - src
    - Mounika1
      - Main.java
- stackprogram
  - JRE System Library [JavaSE-1.8]
  - src
    - mounika8
      - Stack.java

Open tabs: MultiplyMat... | LinkedList.java | LinkedList.java | *DLL.java | Stack.java

```java
package mounika8;
    public class Stack
    {
        static final int MAX = 1000;
        int top;
        int a[] = new int[MAX];
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        {
            return (top < 0);
        }
    Stack()
        {
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        }
    boolean push(int x)
        {
            if (top >= (MAX-1))
            {
                System.out.println("Stack Overflow");
                return false;
            }
            else
            {
                a[++top] = x;
                System.out.println(x + " pushed into stack");
                return true;
            }
        }
```

Outline panel:
- mounika8
- Stack
  - MAX : int
  - top : int
  - a : int[]
  - isEmpty() : boolean
  - Stack()
  - push(int) : boolean
  - pop() : int
  - main(String[]) : void

Problems | Javadoc | Declaration | Console ×

<terminated> Stack [Java Application] C:\Users\Mounika\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (May 16, 2023, 1:19:11

```
67 pushed into stack
4000 pushed into stack
678 pushed into stack
678 Popped from stack
```

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