## Data Structures and Algorithms CSE2001

Lab - 2 - Assignment - 2

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**Problem:** Write a Program to Evaluate Postfix Expression

```
import java.util.Stack;
public class postfix
  static int evaluatePostfix(String exp)
    Stack<Integer> stack=new Stack<>();
    for(int i=0;i<exp.length();i++)</pre>
       char c=exp.charAt(i);
       if(Character.isDigit(c))
       stack.push(c - '0');
       else
```

```
int val1 = stack.pop();
       int val2 = stack.pop();
       switch(c)
         case '+':
         stack.push(val2+val1);
         break;
         case '-':
         stack.push(val2-val1);
         break;
         case '/':
         stack.push(val2/val1);
         break;
         case '*':
         stack.push(val2*val1);
         break;
  return stack.pop();
public static void main(String[] args)
  String exp="16-22+12*65/-+6*";
  System.out.println("postfix evaluation: "+evaluatePostfix(exp));
```

}

## Output

