/*A student gives an online quiz. The result system uses a <u>postfix</u> expression to calculate the total score

based on the answers and <u>weightage</u>. The evaluator evaluates expressions like "93+5*" (which is equivalent to (9 + 3) * 5) to calculate the score dynamically.

Your task is to:

- Evaluate different postfix expressions.
- Explain each step (can be printed as stack trace).
- Accept multiple expressions as sample inputs. (Get user input)

Writing a Java program to evaluate postfix expressions*/

```
package julyhometask;
import java.util.Stack;
import java.util.*;
public class july18ht
{
        public static int evaluatePostfix(String postfix)
        {
                Stack<Integer>stack=new Stack<>();
                for(int i=0;i<postfix.length();i++)</pre>
                {
                         char ch=postfix.charAt(i);
                         if(Character.isDigit(ch))
                         {
                                 stack.push(ch-'0');
                                  System.out.println("The "+ch+" is pushed to the stack
successfully\n1The stack is:"+stack);
                         }
                         else
                         {
                                 int v1=stack.pop();
                                 int v2=stack.pop();
```

```
switch(ch)
                                 {
                                 case '+':
                                         stack.push(v1+v2);
                                         System. out. println ("The "+v1+" and "+v2+" is added \nThe
stack is:"+stack);
                                         break;
                                 case '-':
                                         stack.push(v1-v2);
                                         System. out. println ("The "+v1+" and "+v2+" is
subtracted\nThe stack is:"+stack);
                                         break;
                                 case '*':
                                         stack.push(v1*v2);
                                         System. out. println ("The "+v1+" and "+v2+" is
multiplied\nThe stack is:"+stack);
                                         break;
                                 case '/':
                                         stack.push(v1/v2);
                                         System. out. println("The "+v1+" and "+v2+" is divided\nThe
stack is:"+stack);
                                         break;
                                }
                        }
                }
                        return stack.pop();
                }
```

```
System.out.println("Enter the expression");
Scanner sc=new Scanner(System.in);
String expression=sc.next();
int result=evaluatePostfix(expression);
System.out.println("The evaluated answer is:"+result);
}
```

}