Evaluate POSTFIX Expression Using Stack

```
#include<stdio.h>
int stack[20];
int top = -1;
void push(int x)
    stack[++top] = x;
}
int pop()
    return stack[top--];
int main()
    char exp[20];
    char *e;
    int n1,n2,n3,num;
     printf("Enter the expression :: ");
     scanf("%s",exp);
     e = exp;
     while(*e != '\0')
          if(isdigit(*e))
               num = *e - 48;
               push(num);
          else
               n1 = pop();
               n2 = pop();
               switch(*e)
                    case '+':
```

```
n3 = n1 + n2;
            break;
                    case '-':
                         n3 = n2 - n1;
                         break;
                    case '*':
                         n3 = n1 * n2;
                         break;
                    case '/':
                         n3 = n2 / n1;
                         break;
               push(n3);
          e++;
    printf("\nThe result of expression %s = %d\n\n", exp,pop());
    return 0;
}
```

OUTPUT:

```
Enter the expression :: 245+*
The result of expression 245+* = 18
```