NAME:AL UMA REG NO: 230701368 EX 6 APPLICATION OF STACK (Evaluating Arithmetic Expression) #include <stdio.h> #include <string.h> #define MAX 20 int Stack[MAX], top = -1; char expr[MAX]; void Push(int ele); int Pop(); int main() { int i, a, b, c, e; printf("Enter the postfix expression : "); gets(expr); for(i = 0; i < strlen(expr); i++)if(expr[i]=='+'||expr[i]=='-'||expr[i]=='+'||expr[i]=='-'|b = Pop();a = Pop();switch(expr[i]) { case '+': c = a + b; Push(c); break; case '-': c = a - b; Push(c); break; case '*': c = a * b;Push(c); break;

case '/':
c = a / b;
Push(c);
break;

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}
}
else
printf("Enter the value of %c : ", expr[i]);
scanf("%d", &e);
Push(e);
printf("The result is %d", Pop());
return 0;
}
void Push(int ele)
top = top + 1;
Stack[top] = ele;
int Pop()
{
int e;
e = Stack[top];
top = top - 1;
return e;
}
```