())

algorithm=

- 1) dean the eap from left to right.
- 2) it incoming character is elphabe or digit (operand) then append in the pistyin emp.
- 3) if incoming character is open '('(bracked) the pash into the stack.
- 4) it incoming character is close () then pop the stack untill onpen (() is bound and poped element append to the postfin. Then after pop she stack.
- 3 if incoming character is high personly compare than the topy the stack, then incoming character push in the stack.
- B) It incoming character is less than erual to compose than the top of the stack, pop the stack and append to the push mere, until incoming character become higher personity the path the incoming character into the stack.
- 3 It there are no incoming character then pop the stack and append to the politinent with stack is empty.

```
public class Infinto postfin )
   public int checkpriority (charch) {
         scutch (ch)d
        Case 1+1:
         cose 1-1:
                return 1;
        Cose 1x1
         Corse 1/1:
               return 2;
        case 'N':
              resurn 3;
        return -1;
public String infontofortimoperation(String exp)
   -1String postfinExp="";
                                      AXB-(C+D)+E)-sinfin
  AStack (Character) Stack = new Stack < SU;
  bod int i=0; ix 8tr. length; i++){
       char d = 877. dan Atlij;
                                                                  9-> 37
     if Character. 18 Letter Or Digit (ch)){
                                                                  マラ122
        postinent += ch;
                                                                   0 -> 98
     Yelse $6 (ch = = 101) {
                                                                   9 > 57
       Stack-bush (ch);
    }esseit(ch = = ')'){
      While (! 8 tack. 18 Empty () 9090 & tack- peck () ! = "(") {
         Postfort + = Stack. Peck();
         Stack.pop();
      Stack. popCJ;
   Tesser
      While (18tack. NEmpty 1) 900 Checkpriority (Ch) (=
                    Checkprinity (Sterpeek (1))
         postfor += stack. peck ();
        8 tack. pop (1)
     8 tack · pash (ch);
While (! 8 tack. IS Empty 0) ?
  POSHINENP t = Stack. pecker;
 Stack. popuj
return postfiresp;
```

String exp[] = { "A*B-(C+D)+E", "((A+B)-C*(D/E))+F", "(A+B)*C-(D-E)*(F+G)", "(((A+B)*C)-((D-E)*(F+G)))", "A+B*C/D-F+A^E" };