	14. Evaluation of postfix expression
	The post-fix notation is used to represent algebraic expressions. The expressions written in post-fix form are evaluated faster compared to infix notation as paranthesis is not required in post-fix.
	Steps for evaluating post-fix expression Step1: Accept post-fix expression on string is post variable Step a: For i in post: H i is an operand: push i in stack:
	else:
	pop two elements from stack eg. x and Y perform operation with current operator on both the parents i.e. x: y
	push the result back into the stack
	Find for loop.
	Step 3: Finally pop out the result from stack
	Evaluate below post-fix expression: 234+46-
	Value i operation stack
)	2 Push 2 in stack [2]
2)	3 past start
3)	The push of the steach of the
(a) (5)	Touch of In Stack A analyperform a children operation. The pop a elements from stack & bereform multiplication operation. Perform multiplication operation.
6)	
(7)	6 Push 6 In Stact 6 Por a elements from stact 6 Perform substraction operation. 8
8)	pop result from start and display

```
Cordo!
class evaluate postfix:
 det _ init_ (sex):
 Self. îtem = []
  Self " Size =-1
 det is Empty (sett):
   return selfitem ==[]
def push (self-item):
  Self- Îterus append (Îteru)
  SH+Size+21
det poplse It):
  it self istupty ():
     veturn o
  else:
  5e14-size=1
   return self-item.pop()
 det Stark (self):
   it self-istury ():
   return False
   else:
    return self. Hems [self. size]
det evaluate (seit, expr):
   for i in expr:
     it i'n '0123456789':
    self. push (i)
     else:
    op 12 self. popl)
     opasseH.pop()
      results self (all op 2, op 1, ?)
```

self-push(vesult) return self poper def callself, opa, opi,i): ît i is (x). return intlopalxint(op1) elit is 11: return int(op2)/int(op1) elit i is (+): return int (op2)+int(op1) elit i 15 1-2: return intlop2)-intlop1) 5 = e valuate _ postfix expr= input l'enter the post-fix expression') value = 5. evaluate (expv) print (the result of postfix, expr, 1is, value)

Output-

enter the postfix expression: 53+62/x35x+ is 39