class $stackObj$ is subclass of $stackAlg$
instance variables
       public $stack : Stack := clear\,();$

operations
public
       $Empty : ()\ \overset{o}{\to}\ \mathbb{B}$
       $Empty\,()\ \triangleq$
         return $empty\,(stack);$
public
       $Clear : ()\ \overset{o}{\to}\ ()$
       $Clear\,()\ \triangleq$
         $stack := clear\,();$
public
       $Push : A\ \overset{o}{\to}\ ()$
       $Push\,(a)\ \triangleq$
         $stack := push\,(a, stack);$
public
       $Pop : ()\ \overset{o}{\to}\ ()$
       $Pop\,()\ \triangleq$
         $stack := pop\,(stack)$
       pre $\neg\,empty\,(stack)$;
public
       $Top : ()\ \overset{o}{\to}\ A$
       $Top\,()\ \triangleq$
         return $top\,(stack)$
       pre $\neg\,empty\,(stack)$;
public
       $TopPop : ()\ \overset{o}{\to}\ A$
       $TopPop\,()\ \triangleq$
         def $r = top\,(stack)$ in
         ($stack := pop\,(stack);$
            return r
)
       pre $\neg\,empty\,(stack)$
end $stackObj$
   ($TopPop$ is a new method combining the $split$ of two functions)