config toolbox
by real engineers

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! This is a basic VLAN config for Layer 2 and Layer 3 on the same switch.
!          - Email info@configtoolbox.com if you have any questions.
!
!
!
! These commands will create VLAN 10 as Layer 2 on a switch and name it 'VLAN10'
vlan 10
 name VLAN10
!
! These commands will create a Layer 3 interface for VLAN 10 which also known as a Switched
! Virtual Interface (SVI).  If you don't create an SVI on the same switch then it will be
! treated as Layer 2 only and an external device to the switch will need to handle Layer 3
! for the VLAN.  It is common to use /24 for most subnets in order to keep broadcast traffic
! low.  It is also common on a /24 for the third octet to match the VLAN number.  For example,
! VLAN 10 has a third octet of 10, VLAN 11 would have a third octet of 11, etc.
interface Vlan10
 description Layer 3 for VLAN10
 ip address 1.1.10.1 255.255.255.0
 no shut >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> This will enable the SVI
!
! These commands will assign VLAN 10 to switch port 1 running in access mode with portfast
! enabled.
interface GigabitEthernet0/1
 description PORT ASSIGNED TO VLAN10
 switchport access vlan 10
 switchport mode access
 spanning-tree portfast
 no shut >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> This will enable the switch port
!
!
! Here are some commands to verify your VLAN setup for both Layer 2 and Layer 3.
show vlan
show interface vlan10
show ip interface brief
show interface GigabitEthernet0/1
show interface status
!
```

Let us know if you have any questions or need config guidance.
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