

Sprint Code

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Team ID	PNT2022TMID47541
Project name	IoT Based Smart Crop Protection System for Agriculture

1. Python code to water the plant automatically

```
43     motorstatus = ""
44     waterlevel=random.randint(1,20)
45     Waterusing=""
46     if waterlevel < 2:
47         waterusing =str(waterlevel) + " feet Water Level Low"
48     else:
49         waterusing =str(waterlevel) + " feet Using rain water"
50
51     soilmoisture=random.randint(0,872)
52     if soilmoisture <200:
53         motorstatus="Motor on automatically"
54     else:
55         motorstatus="Motor off automatically"
56
57
```

2. Python code to ON and OFF the motor using button

```
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="motoron":
        print ("Motor is on")
    elif status == "motoroff":
        print ("Motor is off")
    else :
        print ("please send proper command")
```