Project Development phase

Date	09 November 2022
Team ID	PNT2022TMID41308
Project Name	Project – SMART WASTE MANAGEMENT FOR
	METROPOLITAN CITIES
Maximum Marks	4 Marks

Delivering of Sprint-2

Python script:

- We create a python code to detect the level, weight of the bin
- Send the status of the bin to the IBM Watson using python script

Python code (sending status of the bin):

```
deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
      print("Caught exception connecting device: %s" % str(e))
      sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an
event of type "greeting" 10 times
deviceCli.connect()
while True:
    level=random.randint(1,100)
    weight=random.randint(1,100)
    if(level<30):
        level status="low level"
        print("level_status=low level garbage")
    elif(level>30)and(level<80):
        level status="medium level garbage"
        print("level_status=low level garbage")
    else:
        level_status="high level garbage"
        print("level status=high level garbage")
    if (weight<30):
        weight_status="low level"
```

```
print("weight status=low level garbage")
    elif(weight>30)and(weight<80):
        weight status="medium level garbage"
        print("weight status=low level garbage")
    else:
        weight status="high level garbage"
        print("weight_status=high level garbage")
data={'level':level,'level status':level status,'weight':weight,'weight status':weight
ht_status }
def myOnpublishCallback():
    print ("level=%s m"%level,"weight=%s kg"%weight, "to IBM watson")
    success=deviceCli.publishEvent("project", "json", data, qos=0,
on_publish=myOnpublishCallback)
    if not success:
           print("not connection last from sensor to IBM IOT")
    time.sleep(10)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

