(b) Put the above function in a module and use another script to import the module and call the function in the script.

```
In [ ]: from EncodeQR import EncodeQR

p_name = "Hi"
  encoded_qr_list = EncodeQR(p_name)
  print(encoded_qr_list)
```

100000000100100010000000001101001

P4:Demonstrate use of object- oriented programming concepts

You are crazy about your selected domain. Today is The Day you can write a python program on YOUR DOMAIN!!!

Create a class called "Your Domain Name" which has five attributes (2 string, 3 number). Initialize the variables in the "__init_" method and write at least three more methods. With

respect to your domain, you can create methods for getting Input, update the values, verify the condition, and etc.

- 1. Create two objects and call the functions.
- 2. Implement the concept of Inheritance and Polymorphism.

```
In [ ]: class VehicleParkingManagementSystem:
            def __init__(self, location, manager, capacity, occupied_spots, available_spots
                self.location = location #String
                self.manager = manager #String
                self.capacity = capacity #Value
                self.occupied_spots = occupied_spots #Value
                self.available_spots = available_spots #Value
            def display_info(self):
                print("Parking Location:", self.location)
                print("Manager:", self.manager)
                print("Total Capacity:", self.capacity)
                print("Occupied Spots:", self.occupied_spots)
                print("Available Spots:", self.available_spots)
            def park_vehicle(self):
                if self.available spots > 0:
                    self.available spots -= 1
                    self.occupied_spots += 1
                    print("Vehicle parked successfully.")
                    print("Parking is full. No available spots.")
            def vacate_spot(self):
                if self.occupied_spots > 0:
                    self.available_spots += 1
                    self.occupied spots -= 1
```

```
print("Spot vacated successfully.")
else:
   print("No vehicles to vacate.")
```

Inheritance and Polymorphism

Creating objects and calling functions

```
In [ ]: parking system = VehicleParkingManagementSystem("Ground Floor Parking", "Brun Samer
       parking_system.display_info()
       parking system.park vehicle()
       parking_system.vacate_spot()
       print("-----")
       valet_system = ValetParkingSystem("1st Floor Parking", "Jane Smith", 30, 5, 25, 3)
       valet system.display info()
       valet_system.park_vehicle()
       valet_system.vacate_spot()
      Parking Location: Ground Floor Parking
      Manager: Brun Samer
      Total Capacity: 50
      Occupied Spots: 10
      Available Spots: 40
      Vehicle parked successfully.
      Spot vacated successfully.
      _____
      Valet Count: 3
      Vehicle parked by valet successfully.
      Spot vacated successfully.
```