1. **Write Add(Customer) and Delete(Customer) methods in Python to add a new customer and delete a customer forma list of CustomerNames, considering them to act as push and pop operations of data structure**

CustomerNames=[‘abc’,’qwe’,’rty’,xyz’]

def add(customer):

CustomerNames .append()

def delete(customer):

CustomerNames.pop()

customer=input(‘enter customer name’)

1. **Enlist some applications of Stack?**

Memory management, storing and organising data/files

1. **Consider the following Stack of Characters implemented as an array of 4 elements:**

**STACK = [‘A’,’J’,’P’,’N’]**

**Describe the Stack as the following operations take place.**

1. STACK.pop ()

n

1. STACK.append(k)

[a,j,p,k]

1. STACK.append(s)

[a,j,p,k,s]

1. STACK.pop ()

s

1. STACK.append(G)

[a,j,p,k,g]

1. **What is the situation called when an insertion is attempted on full stack?**

Overflow condition

1. **A linear stack called Dictionary contains the following information.**

* **Pincode of the city**
* **Name of the city**

**Write Add(Dictionary) and delete(Dictionary) methods in Python to add and remove contacts using append() and pop() methods of stack.**

Dictionary={122:’Chennai’,111:’Madurai’}

Def add(dictionary):

Pin=int(input(‘enter pincode))

City=input(‘enter city’))

Ele={pin:city}

Dictionary.append(ele)

Def delete(dictionary):

Dictioary.pop()