Circular queue implementation with fixed size

1.Initialize: - size - front pointer(exist) - rear pionter(entry) - queue 2.Enqueue: - queue is full (rear+1 == front) - first element (rear = front =0),then append - entering anywhere except at the begining(rear = rear +1%size),then append 3.Dequeue:

- rear =front=-1(queue empty)
- rear=front(only one element remain)(pop it by moving the front & rear to -1)
- dequeue the element pointed by front pointer(front means forst element)&increment front pointer dequeue = moving the front pointer to next value

```
class circular0:
    def init (self, size):
        self.size=size
        self.front=self.rear = -1
        self.queue=[None] *size
    def Enqueue(self,data):
        if (self.rear + 1) % self.size == self.front:
            return("queue is full")
        elif self.rear == -1:
            self.front = self.rear=0
            self.queue[self.rear]=data
        else:
            self.rear=(self.rear+1)%self.size
            self.queue[self.rear]=data
    def dequeue(self):
        if self.front==-1:
            print("queue is empty")
        elif self.front == self.rear:
            self.front =self.rear = -1
        else:
            self.front = (self.front+1)%self.size
    def display(self):
        if self.front == -1:
            print("queue is empty")
        i = self.front
        while True:
            print(self.queue[i])
            if i==self.rear:
                break
            i = (i+1) %self.size
C =circularQ(4)
C.Enqueue (23)
```

```
C. Enqueue (45)
C.Enqueue (56)
C.Enqueue (98)
C. Enqueue (90)
'queue is full'
C.dequeue()
C.dequeue()
C.dequeue()
C.dequeue()
C.dequeue()
queue is empty
C. Enqueue (45)
C.Enqueue (56)
C.Enqueue (98)
C.Enqueue (90)
C.display()
45
56
98
90
```

def difference of sum(n,m).the function accepts two integers n,m as arguments find the sum of all numbers in range from 1 to m(both inclusive)that are not divisible by n.return difference between sum of divisible by n with sum of numbers divisible by

n.input: n=4,=20 output:90(4+8+12+16+20=60)
 (1+2+3+5+6+7+9+10+11+13+14+15+17+18+19=150)(150-60=90)

```
a = [1, 2, 3, 4, 5, 6, 7, 8, 910, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
div=[]
nondiv=[]
for a in range(len(a)):
    if a\%4 == 0:
        div.append(a)
    else:
        nondiv.append(a)
print("div",div)
print("nondiv", nondiv)
div [0, 4, 8, 12, 16]
nondiv [1, 2, 3, 5, 6, 7, 9, 10, 11, 13, 14, 15, 17, 18]
def dif(n,m):
    divi = 0
    ndivi = 0
    for i in range(1,m+1):
```

you are give a function.checkpassword(char,n); the function accepts string str of size n as an argument .implement the function which return 1 if give string str is valid password else 0. str is a valid password if it staisfies the below conditions.

• at least 4 cha

```
def function(char,n):
    for i in range(n):
        if char[i]==4:
```