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class queue:
    def __init__(self):
        self.items=[]
    def is_empty(self):
        return len(self.items)==0
    def enqueue(self,data):
        return self.items.append(data)
    def dequeue(self):
        if not self.is_empty():
            return self.items.pop(0)
        else:
            raise IndexError("Queue is empty...!!!")
    def get_rear(self):
        if not self.is_empty():
            return self.items[-1]
        else:
            raise IndexError("Queue is empty...!!!")
    def get_front(self):
        if not self.is_empty():
            return self.items[0]
        else:
            raise IndexError("Queue is empty...!!!")
    def size(self):
        return len(self.items)

def operations():
    q1=queue()
    print("Choose any one option: ")
    print("1.enqueue")
    print("2.dequeue")
    print("3.get_front")
    print("4.get_rear")
    print("5.Exit")

    while True:
        choice = input("select ---> 1/2/3/4/5: ")
        if(choice in ('1','2','3','4','5')):
            try:
                if choice=='1':
                    n1 = int(input("enter a value: "))
                    q1.enqueue(n1)
                    print("Element is inserted in queue")
                elif choice=='2':
                    d = q1.dequeue()
                    print("deleted element is : ",d)
                elif choice=='3':
                    f = q1.get_front()
                    print("front side element is : ",f)
                elif choice=='4':
                    r = q1.get_rear()
                    print("rear side element is : ",r)
                else:
                    if choice=='5':
                        break
            except:
                print("Choose valid one...!")
        else:
            print("Choose valid options given above...!!!")

operations()

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➦ Choose any one option:
1.enqueue
2.dequeue
3.get_front
4.get_rear
5.Exit
select ---> 1/2/3/4/5: 1
enter a value: 90
Element is inserted in queue
select ---> 1/2/3/4/5: 1
enter a value: 110
Element is inserted in queue
select ---> 1/2/3/4/5: 1
enter a value: 100
Element is inserted in queue

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select ---> 1/2/3/4/5: 3  
front side element is : 90  
select ---> 1/2/3/4/5: 4  
rear side element is : 100  
select ---> 1/2/3/4/5: 2  
deleted element is : 90  
select ---> 1/2/3/4/5: 5
```

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