```
11 11 11
SET 1:
   1 ADD DETAILS (CARNO, PRICE, COMPANY)
    2 INPUT COMPANY AND DISPLAY ITS CARS
    3 SORT BASED ON THE PRICE
    4 EXIT
carList = []
while True:
    print("1 Add details \n 2 Search car \n 3 sort \n 4 exit")
    choosOption = int(input("Choose any option :"))
    if choosOption == 1:
        carNo = input("Enter a car number :")
        carPrice = int(input("Enter a price(in lakh):"))
        carCompany = input("Enter a company name :")
        dic1 = {"no":carNo,"price":carPrice,"company":carCompany}
        carList.append(dic1)
        print("Total car:"+str(len(carList)))
    elif choosOption == 2:
        serchComapny = input("Entre a company name :")
        for car in range(len(carList)):
            if (carList[car]["company"] == serchComapny):
                print(carList[car]["no"])
    elif choosOption ==3 :
        for i in range(len(carList)):
            for j in range(len(carList)-i-1):
                if(carList[j]["price"]>=carList[j+1]["price"]):
                    carList[j], carList[j+1] = carList[j+1], carList[j]
        print(carList)
    elif choosOption ==4 :
       break
```

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11 11 11
Set 2 :
   1 : sum of number which multiple of 3 or 5
    2 : armstrong number between the number
def getArmsdtrong(number):
   sum = 0
    temp = number
    while temp>0:
       remainder = temp%10
       sum += remainder**3
       temp//=10
    if(number == sum):
        return True
while True :
    print("1. sum of multiple of 3 or 5 \ n 2. armstrong number between two number \ n 3 exit ")
    choosOption = int(input("Enter a option :"))
    if choosOption ==1:
        sum = 0
        for i in range(1,1000):
            if(i%3 == 0 or i%5 == 0 ):
                sum = sum + i
        print(sum)
    elif choosOption == 2:
        start = int(input("Enter a starting range:"))
        End = int(input("Enter a ending range:"))
        while start<=End:</pre>
            if(getArmsdtrong(start)):
               print(start)
            start+=1
    else:
        break
```

```
11 11 11
SET 3 :
   1 ADD PLAYER DETAILS (NO, NAME, AGE, RUNS, WICKETS)
    2 DISPLAY GRETER THAN WICKETS DATA OF INPUT NO
    3 SORT BASE ON AGE
    4 EXIT
playerList = []
while True:
   print("1 add data \n 2 display \n 3 sort \n 4 exit")
   chooOption = int(input("Enter option :"))
    if chooOption == 1:
        no = int(input("Enter a no of player :"))
        name = input("Enter a name of player :")
        age = int(input("Enter a age :"))
        runs = int(input("Eter a total runs :"))
        wickets = int(input("Eter a total wicket :"))
        dic1 = {"no":no,"name":name, "age":age, "run":runs, "wicket":wickets}
        playerList.append(dic1)
        print("total record "+str(len(playerList)))
    elif chooOption == 2:
        wickets = int(input("Eter a wicket :"))
        for i in range(len(playerList)):
            if (playerList[i]["wicket"]>= wickets):
                print(playerList[i]["name"])
    elif chooOption == 3:
        for i in range(len(playerList)):
            for j in range(len(playerList)-i-1):
                if(playerList[j]["age"]>playerList[j+1]["age"]):
                    playerList[j],playerList[j+1] = playerList[j+1],playerList[j]
        print(playerList)
    else:
        break
```

```
11 11 11
set : 4
   1 LARGEST PRIME FACTORS OF 6000
   2 ARMSTRONG NUMBER BETWEEN RANGE
def getFactors(number):
   maxnumber = 0
   factor = 0
   for i in range(1, number+1):
        if number%i == 0:
            flag = 0
            for j in range(2,i):
                if i%j == 0 :
                    flag = 1
                   break
            if flag == 0:
               maxnumber = i
    return maxnumber
def getArmsdtrong(number):
   sum = 0
    temp = number
    while temp>0:
       remainder = temp%10
        sum += remainder**3
        temp//=10
    if (number == sum):
       return True
while True:
   print("1. prime factors \n 2 armstrong number \n 3 exit ")
    chooseOption = int(input("Choose Option :"))
    if chooseOption == 1:
       print("Biggest Prime Number is :"+ str(getFactors(6000)))
    elif chooseOption == 2:
        start = int(input("Enter a starting range:"))
        End = int(input("Enter a ending range:"))
        while start<=End:</pre>
            if(getArmsdtrong(start)):
               print(start)
            start+=1
    elif chooseOption == 3:
       exit()
```

```
11 11 11
set 5 :
   1 : add details(name, area, price, capacity)
    2 : display data(area=navrangpura and capacity more than 5000)
    3 : order in price
    4 : exit
listOfParticipent = []
while True :
   print("1. Add details \n 2. Display data \n 3. sort by price \n 4. exit ")
    chooseOption = int(input("Enter a abouve option :"))
    if (chooseOption ==1):
       nameParticipent = input("Enter a name of participant :")
       area = input("Enter area :")
       price = int(input("Enter price :"))
       capacity = int(input("Enter capacity :"))
        dict = {"name":nameParticipent, "area":area, "price":price, "capacity":capacity}
       listOfParticipent.append(dict)
    elif chooseOption == 2 :
        for list in range(len(listOfParticipent)):
            #print(listOfParticipent)
            if(listOfParticipent[list]["area"]=="navrangpura" and listOfParticipent[list]["capacity"]>=5000):
                print(list)
       print(listOfParticipent)
    elif chooseOption == 3:
        for i in range(len(listOfParticipent)):
            for j in range(len(listOfParticipent)-i-1):
                if (listOfParticipent[j]["price"] > listOfParticipent[j+1]["price"]):
                    listOfParticipent[j], listOfParticipent[j+1] = listOfParticipent[j+1], listOfParticipent[j]
        print(listOfParticipent)
    elif chooseOption == 4:
       break
```

```
11 11 11
set : 6
1 SUM OF NUMBER SQUERE AND SUM OF SUQUER OF THE NUMBER
FIND THE DIFFRENCE BETWEEN THEM
2 FIND THE PRIME NUMBER BETWEEN THE FIRST 100 NUMBER
3 EXIT
nnn
def getSumNumber():
    sum = 0
    for i in range(1,101):
      sum = sum + i
    return sum**2
def getSqureNumber():
    sum = 0
    for i in range(1,101):
       sum = sum + i * * 2
    return sum
def getfactors(number):
    fac = 0
    for i in range(1, number+1):
       if (number%i==0):
           fac+=1
    return fac
def primeNumber(number):
    factors = getfactors(number)
    if factors ==2:
       return True
while True :
    print("1 Diffrence \n 2 prime number \n 3 exit ")
    option= int(input("Enter option :"))
    if option ==1:
        sumNumber = getSumNumber()
        squreNumber = getSqureNumber()
       print(sumNumber)
        print(squreNumber)
        diffrence = sumNumber - squreNumber
        print("diffrence is "+str(diffrence))
    elif option == 2:
        start = int(input("Enter start :"))
        end = int(input("Enter end :"))
        while start<= end:</pre>
            if(primeNumber(start)):
               print(start)
                start+=1
            else :
                start+=1
    elif option == 3:
        exit()
```

```
11 11 11
SET 7 :
   1 ADD DETAILS (NAME , CUISINE , RATING , LOCATION )
    2 Dispaly restro Chinese cuisine and rating more than 3.5.
    3 SORT BASE ON RATIING
    4 EXIT
restroList = []
while True:
   print("1 add Details \n 2 display data \n 3 sort data \n 4 exit")
    chooOption = int(input("Enter option :"))
    if chooOption == 1:
        name = input("Enter a name of restro :")
        cusine = input("Enter cusine name :")
        rating = float(input("Enter a rating ( 1 to 5 ) :"))
        location = input("Eter a location :")
        dic1 = {"name":name, "cusine":cusine, "rating":rating, "address":location}
        restroList.append(dic1)
        print("total record "+str(len(restroList)))
    elif chooOption == 2:
      for i in range(len(restroList)):
          if (restroList[i]["cusine"] == "chinese" and restroList[i]["rating"] >= 3.5):
              print(restroList[i]["name"])
    elif chooOption == 3:
        for i in range(len(restroList)):
            for j in range(len(restroList)-i-1):
                if (restroList[j]["rating"] < restroList[j+1]["rating"]):</pre>
                    restroList[j], restroList[j+1] = restroList[j+1], restroList[j]
       print(restroList)
    else:
        break
```

```
11 11 11
set 8 :
1 find 101th prime number
2 armstrong number between range
nnn
def getFactors(number):
    factors = 0
    for i in range(1, number+1):
        if number%i == 0:
            factors +=1
    return factors
def primeNumber(number):
    totFactor = getFactors(number)
    if totFactor == 2:
        return True
def getArmsdtrong(number):
    sum = 0
    temp = number
while temp>0:
        remainder = temp%10
        sum += remainder**3
        temp//=10
    if (number == sum):
        return True
while True :
    print("1. find number \n 2 armstrong number \n 3 exit")
    chooseOption= int(input("Enter a choice :"))
    if chooseOption == 1:
        count = 1
        number = 1
        while count <= 101:</pre>
                if(primeNumber(number)):
                     if (count==101):
                         print("101th prime number is :"+str(number))
                     number+=1
                     count+=1
                 else :
                    number+=1
    elif chooseOption == 2:
        start = int(input("Enter a starting range:"))
        End = int(input("Enter a ending range:"))
        while start<=End:</pre>
            if (getArmsdtrong(start)):
                print(start)
            start+=1
    elif chooseOption == 3:
```