print multiples of 3 upto 200 using a list

print the nos only divisable by 5 and 7 between 1000 and 2000 using a list

Add the n number of names in a list and print them alphabetically and reverse alphabetically

```
In [2]:
         ▶ a=[]
            n=int(input("Enter number of elements:"))
            for i in range(1,n+1):
                b=str(input("Enter element:"))
                a.append(b)
            print(a)
            a.sort()
            print("sorted list in alphabetical order",a)
            a.reverse()
            print("list in the reverse alphabetical order",a)
            Enter number of elements:5
            Enter element:bhadravathi
            Enter element:shivamogga
            Enter element:koppa
            Enter element:chitradurga
            Enter element:davangere
            ['bhadravathi', 'shivamogga', 'koppa', 'chitradurga', 'davangere']
            sorted list in alphabetical order ['bhadravathi', 'chitradurga', 'davangere', 'kop
            pa', 'shivamogga']
            list in the reverse alphabetical order ['shivamogga', 'koppa', 'davangere', 'chitr
```

adurga', 'bhadravathi']

Print perfect squares and divisible by 5 between 500 and 1000 (both inclusive using list comprehension

Calculate the Average of the numbers in a List by getting the elements of list from keyboard

```
In [31]:
          M a=[]
             n=int(input("Enter number of elements:"))
             for i in range(1,n+1):
                 b=int(input("Enter element:"))
                 a.append(b)
             print("the element of the list are",a)
             print("averageof the number in the list is", sum(a)/len(a))
             Enter number of elements:5
             Enter element:1
             Enter element:2
             Enter element:3
             Enter element:4
             Enter element:5
             the element of the list are [1, 2, 3, 4, 5]
             averageof the number in the list is 3.0
```

Print lists of odd, even and multiples of 5 numbers from 1 to 1000 using list comprehension

list of add numbers in range (1,1000) is: [0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 14 0, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 30 5, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 47 0, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 63 5, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 80 0, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 96 5, 970, 975, 980, 985, 990, 995]

Python Program to Create a List of Tuples with the First Element as the Number and Second Element as the Square of the Number

python program to have a list of words to sort them from shortest to longest using list of tuples

Write python program to get a list of tuples of Rollno, Name for 5 students through keyboard and sort them Rollno wise ascending order

```
a=[]
            n=int(input("enter num of students: "))
            for i in range(0,n):
              e=int(input("enter rollnum: "))
              j=input("enter name: ")
              t.append(e)
              a.append(j)
            m = [(t[i], a[i]) for i in range(0, len(t))]
            print("input: ",m)
            m.sort(key = lambda x:x[0])
            print("output",m)
            enter num of students: 2
            enter rollnum: 12
            enter name: ojhbdx
            enter rollnum: 15
            enter name: jgfxctyagx
            input: [(12, 'ojhbdx'), (15, 'jgfxctyagx')]
            output [(12, 'ojhbdx'), (15, 'jgfxctyagx')]
```

Write python program to get a list of tuples of Rollno, Name for 5 students through keyboard and sort them by Rollno wise descending order

```
In [16]:
          ⋈ t=[]
             a=[]
             n=int(input("enter num of students: "))
             for i in range(0,n):
               e=int(input("enter rollnum: "))
               j=input("enter name: ")
               t.append(e)
               a.append(j)
             m = [(t[i], a[i]) for i in range(0, len(t))]
             print("input: ",m)
             m.sort(key = lambda x:x[0], reverse=1)
             print("output",m)
             enter num of students: 2
             enter rollnum: 12
             enter name: ihguykc
             enter rollnum: 15
             enter name: 'kbvkutyu
             input: [(12, 'ihguykc'), (15, "'kbvkutyu")]
             output [(15, "'kbvkutyu"), (12, 'ihguykc')]
```

Write python program to get a list of tuples of Rollno, Name for 5 students through keyboard and sort them by Name wise ascending order

```
In [18]:
         ▶ | t=[]
             a=[]
             n=int(input("enter num of students: "))
             for i in range(0,n):
               e=int(input("enter rollnum: "))
               j=input("enter name: ")
               t.append(e)
               a.append(j)
             m = [(t[i], a[i]) for i in range(0, len(t))]
             print("input: ",m)
             m.sort(key = lambda x:x[1])
             print("output",m)
             enter num of students: 2
             enter rollnum: 12
             enter name: yjdnf
             enter rollnum: 15
             enter name: fgjfgjd
             input: [(12, 'yjdnf'), (15, 'fgjfgjd')]
```

Write python program to get a list of tuples of Rollno, Name for 5 students through keyboard and sort them by Name wise descending order

output [(15, 'fgjfgjd'), (12, 'yjdnf')]

input: [(12, 'fkghf'), (15, 'fdfdh')]
output [(12, 'fkghf'), (15, 'fdfdh')]

```
In [19]:
          ⋈ | t=[]
             a=[]
             n=int(input("enter num of students: "))
             for i in range(0,n):
               e=int(input("enter rollnum: "))
               j=input("enter name: ")
               t.append(e)
               a.append(j)
             m = [(t[i], a[i]) for i in range(0, len(t))]
             print("input: ",m)
             m.sort(key = lambda x:x[1], reverse=1)
             print("output",m)
             enter num of students: 2
             enter rollnum: 12
             enter name: fkghf
             enter rollnum: 15
             enter name: fdfdh
```