In [2]:
```
# appropriate greetings
print("*************************************************************")
print(" ------ WELOCOME TO STUDENT SCORE APPLICATION------ ")
print("*************************************************************")

#enter name of class & institution. Act as a header form
print("institute Information")

sch = input("School/University Name:")
classes = input("Class: ")
year = int(input("Year of: "))
#user choose one of the task
print("*************************************************************")

print("\u2764\uFE0F","MENU","\u2764\uFE0F")
print ("\n1.) ADD STUDENTS DATA \n2.) SEARCH A STUDENT AND UPDATE MARKS \n3.) DISPLAY HIGHEST AND LOWEST MARK
\n4.) EXIT")

print ("\n*************************************************************")
choice = "yes"
while choice == "yes":
    option = int(input("\nPlease select options menu above (number): "))
    #user have to key in names and score
    if option == 1:
        print ("please enter student's name and mark")
        liststudent = []
        listsmark = []

        #enter the number of students
        n = 0
        n = int(input("How many students?: "))
        print()
        for i in range (0,n):

            #enter student's name and score
            liststudent.append(input("Enter student's name: "))
            listsmark.append(int(input("Enter the marks: ")))
            print()

        #display list of student and score - unsorted
        print("\n")
        print("Unsorted List Student:",liststudent)
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        print("unsorted List Marks: ",listsmark)

        #sort input from highest to lowest
        def bubbleSort (listmark,liststudent):
            for n in range(len(listmark)-1, 0, -1):
                for i in range(n):
                    if listmark[i] < listsmark[i + 1]:
                        mark=listmark[i]
                        listmark[i]=listmark[i + 1]
                        listmark[i + 1]=mark

                        mark=liststudent[i]
                        liststudent[i]=liststudent[i + 1]
                        liststudent[i + 1]= mark

        #calling bubblesort function
        bubbleSort (listsmark,liststudent)

        #display list of student and score - sorted
        print("\n")
        print("Sorted List Students:  ",liststudent)
        print("Sorted list Marks: ",listsmark)
        print("\n")

    #search a student and update his/her score using sequantialsearch
    elif option == 2:
        def sequantialSearch (liststudent,listsmark,item):
            pos = 0
            found = False

            while pos<=len(liststudent) and not found:
                if liststudent[pos] == item:
                    found = liststudent[pos]
                    print()
                    print("Name searched is ", liststudent[pos],"in index", pos)

                    #update data
                    change = input("Want change his/her marks?(yes/no): ")
                    if change == "yes":
                        newValue=int(input("New value: "))
                        listsmark[pos]=newValue
                    else:
                        print()
```

```
                    print("NO UPDATED DATA")
            else:
                pos = pos + 1

        return found

    #enter student name
    item = str(input("Enter the name of student you want to search: "))

    #calling binarysearch function
    sequantialSearch (liststudent,listsmark,item)

    #calling bubblesort function
    bubbleSort (listsmark,liststudent)

    #display updated list
    print("\n")
    print("Updated List Students: ",liststudent)
    print("Updated List Marks: ",listsmark)
    print("\n")


#displaying the lowest and the highest mark (with name)
elif option == 3:
    #define student with the highest and lowest score
    high=listsmark[0]
    low=listsmark[-1]
    high_student=liststudent[0]
    low_student=liststudent[-1]

    #display highest mark and lowest mark
    print ("THE HIGHEST MARK: ",high,"%")
    print ("STUDENT WITH THE HIGHEST MARK: ",high_student)
    print()

    print ("THE LOW MARK: ",low,"%")
    print ("STUDENT WITH THE LOWEST MARK: ",low_student)

#Farewell greetings
elif option == 4:
    print("*****THANK YOU!!","\u2764\uFE0F","BREAK A LEG FOR UPCOMING EXAM!""\U0001f600""*******")
    break
```

```
    else:
        print("invalid option!!")
```

```
************************************************************
 ------ WELOCOME TO STUDENT SCORE APPLICATION------
************************************************************
institute Information
School/University Name:Kolej Profesional MARA Beranang
Class: DCS2C
Year of: 2022
************************************************************
💔 MENU 💔

1.) ADD STUDENTS DATA
2.) SEARCH A STUDENT AND UPDATE MARKS
3.) DISPLAY HIGHEST AND LOWEST MARK
4.) EXIT

************************************************************

Please select options menu above (number): 1
please enter student's name and mark
How many students?: 6

Enter student's name: Ali
Enter the marks: 44

Enter student's name: abu
Enter the marks: 89

Enter student's name: mahmud
Enter the marks: 78

Enter student's name: mei lin
Enter the marks: 21

Enter student's name: ahmad
Enter the marks: 49

Enter student's name: aliya
Enter the marks: 90



Unsorted List Student: ['Ali', 'abu', 'mahmud', 'mei lin', 'ahmad', 'aliya']
unsorted List Marks:  [44, 89, 78, 21, 49, 90]
```

```
Sorted List Students:   ['aliya', 'abu', 'mahmud', 'ahmad', 'Ali', 'mei lin']
Sorted list Marks:  [90, 89, 78, 49, 44, 21]



Please select options menu above (number): 2
Enter the name of student you want to search: mei lin

Name searched is  mei lin in index 5
Want change his/her marks?(yes/no): yes
New value: 56


Updated List Students:  ['aliya', 'abu', 'mahmud', 'mei lin', 'ahmad', 'Ali']
Updated List Marks:  [90, 89, 78, 56, 49, 44]



Please select options menu above (number): 3
THE HIGHEST MARK:  90 %
STUDENT WITH THE HIGHEST MARK:  aliya

THE LOW MARK:  44 %
STUDENT WITH THE LOWEST MARK:  Ali

Please select options menu above (number): 4
*****THANK YOU!! ❤️ BREAK A LEG FOR UPCOMING EXAM!😀*******
```

In [ ]: