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def array(A):
    n=int(input("Enter the total no. of students:"))

    for i in range(n):
        x=int(input("\n Enter the first year percentage  of student %d: "
%(i+1)))
        A.append(x)
    print("\n student info accepted successfully\n")
    return n

def display(A):
    n=len(A)
    if(n==0):
        print("\n No records in the database")
    else:
        print("Students Array: ",end=' ')
        for i in range(n):
            print("%d" %A[i], end=' ')
        print(" ")

def Selection_sort(A):
    n=len(A)
    for i in range(n-1):
        min=i
        for j in range(i+1,n):
            if(A[j]<A[min]):
                min=j
        temp=A[i]
        A[i]=A[min]
        A[min]=temp

def bubble_sort(A):
    n=len(A)
    for i in range(1,n):
        for j in range(n-i):
            if(A[j]>A[j+1]):
                temp=A[j]
                A[j]=A[j+1]
                A[j+1]=temp

def main():
    A=[]
    while True:
        print("\n\t1 : Accept & display students FE marks")
        print("\t2 : Execure selection sort in Ascending order")
        print("\t3 : Execute bubble sort in Ascending order and Display top
Five scores")

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print("\t4 : Exit")
choice=int(input("\n Enter your choice:"))
if(choice==4):
    print("End of program")
    quit()
    break
elif(choice==1):
    A=[]
    array(A)
    display(A)
elif(choice==2):
    print("Marks before sorting")
    display(A)
    Selection_sort(A)
    print("Marks after sorting")
    display(A)
elif(choice==3):
    n=len(A)
    print("Marks before sorting")
    display(A)
    bubble_sort(A)
    print("Marks after sorting")
    display(A)
    if(len(A)>=5):
        print("Top Five Scores :")
        n=len(A)
        if(len(A)>=5):
            B=[]
            for i in range(n-5,n):
                x=A[i]
                B.append(x)
            s=len(B)
            m=int(s/2)
            for j in range(m):
                temp=B[j]
                B[j]=B[s-j-1]
                B[s-j-1]=temp
            for j in range(s):
                print("\t %.2f"%B[j])
        else:
            print("Top Five scores:")
            s=len(A)
            m=int(s/2)
            for j in range(m):
                temp=A[j]
                A[j]=A[s-j-1]
                A[s-j-1]=temp
            for j in range(s):

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        print("\t %.2f"%A[j])

    else:
        print("Enter Enter correct choice choice")
main()
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