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"""
Write a python program to store first year percentage of students
in array.
Write function for sorting array of floating point numbers in
ascending order using
Quick sort and display top five scores
"""

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def partition(A,l,h) :
    pivot=A[l]
    i=l
    j=h
    while(i<=j) :
        #while(i<=l and A[i]<=A[l]) :
        while(A[i]<=A[l]):
            i = i + 1
        while(A[j] >A[l]) :
            j = j - 1
        if(i<j) :
            temp = A[i]
            A[i] = A[j]
            A[j] = temp
    temp = A[l]
    A[l] = A[j]
    A[j] = temp
    return j

```

```

def Quicksort(A,l,h) :
    if(l<h) :
        mid=partition(A,l,h)
        Quicksort(A,l,mid-1)
        Quicksort(A,mid+1,h)

```

```

A=[]
print("*****
**Quick_Sort*****
*****")
Num = int(input("Enter the number of students: "))
for i in range(Num):
    per = float(input("Enter the percentage marks: "))
    A.append(per)

Quicksort(A,0,Num-1)
print("Sorted array is:")
for i in range(len(A)):
    print("%f" % A[i])

```

