**Assignment 5**

1.

**Best Average Worst**

Selection Sort O(n^2) 0(n^2) O(n^2)

Bubble Sort O(n) θ(n^2) O(n^2)

Insertion Sort O(n) θ(n^2) O(n^2)

Heap Sort O(n log(n)) On log(n)) O(n log(n))

Quick Sort O(n log(n)) O(n log(n)) O(n^2)

2.

ls=[int(i) for i in input("enter the valus:").split()]

for j in range(0,len(ls)):

s=j

for i in range(j+1,len(ls)):

if ls[s]>ls[i]:

s=i

ls[j],ls[s]=ls[s],ls[j]

ls

3.

stack = []

print(stack.pop())