```
# Function to input the percentage of students
def input_percentage():
  perc = []
  number_of_students = int(input("Enter the number of Students: "))
  for i in range(number_of_students):
    perc.append(float(input("Enter the percentage of Student {0}: ".format(i+1))))
  return perc
# Function for printing the percentage of the Students
def print_percentage(perc):
 for i in range(len(perc)):
    print(perc[i], sep="\n")
# Function for performing partition of the Data (used in Quick Sort)
def percentage_partition(perc, start, end):
  pivot = perc[start]
  lower_bound = start + 1
  upper_bound = end
  while True:
    while lower_bound <= upper_bound and perc[lower_bound] <= pivot:
      lower_bound += 1
    while lower_bound <= upper_bound and perc[upper_bound] >= pivot:
      upper_bound -= 1
    if lower bound <= upper bound:
      perc[lower_bound], perc[upper_bound] = perc[upper_bound], perc[lower_bound]
    else:
      break
  perc[start], perc[upper_bound] = perc[upper_bound], perc[start]
  return upper bound
```

Function for performing Quick Sort on the Data

```
if start < end:
    partition = percentage_partition(perc, start, end)
    Quick_Sort(perc, start, partition - 1)
    Quick_Sort(perc, partition + 1, end)
  return perc
# Function for Displaying Top Five Percentages of Students
def display_top_five(perc):
  print("Top Five Percentages are: ")
  if len(perc) < 5:
    start, stop = len(perc) - 1, -1
  else:
    start, stop = len(perc) - 1, len(perc) - 6
  for i in range(start, stop, -1):
    print(perc[i], sep="\n")
# Main function to control the flow of the program
unsorted_percentage = []
sorted_percentage = []
flag = 1
while flag == 1:
  print("\n-----")
  print("1. Accept the Percentage of Students")
  print("2. Display the Percentages of Students")
  print("3. Perform Quick Sort on the Data")
  print("4. Exit")
  ch = int(input("Enter your choice (from 1 to 4): "))
```

def Quick_Sort(perc, start, end):

```
if ch == 1:
  unsorted_percentage = input_percentage()
elif ch == 2:
  print_percentage(unsorted_percentage)
elif ch == 3:
  print("Percentages of Students after performing Quick Sort: ")
  sorted_percentage = Quick_Sort(unsorted_percentage, 0, len(unsorted_percentage) - 1)
  print_percentage(sorted_percentage)
  a = input("Do you want to display the Top 5 Percentages of Students (yes/no): ")
  if a == 'yes':
    display_top_five(sorted_percentage)
elif ch == 4:
  print("Thanks for using this program!!")
  flag = 0
else:
  print("Invalid Choice!!")
```