

Algorithm 1:

```
ArrayList<Student> list = ArrayList<student>; //array list of student class
//this list contains all the info of student like marks, name , total marks and so on
```

NOTE: Use ArrallList.sort method on total marks to sort array based on ascending order

```
list.sort((o1, o2)
    -> o1.getTotalMarks().compareTo(
        o2.getTotalMarks()));
```

Loop through the list again and the first 10 data are lowest marks student and last 10 student are highest marks obtaining student

```
for(int m=0;m<list.size();m++) {

    if(m<10) {

        //lowest marks student list
    }
    if(m>= list.size()-10) {

        //highest mark student list

    }
}
```

Algorithm 2:

Use switch case with choice variable to select different cases  
choice=1 represents viewing total student info  
choice =2 represents viewing student info with input threshold  
choice=3 viewing top 10 student info having highest and lowest score

```
Switch (choice) {
Case 1:
    //code
    //break;
```

```
Case 2:
    //code
    //break;
```

Case 3:

```
//code  
//break;
```

default:

```
//code  
//break;
```

```
}}
```