

Reg. No: 111619104119

Subject

Name: OBJECT ORIENTED PROGRAMHING

LABORATORY

Subject

Code: CS 8383

College

code: 1116

Servion: Afternoon

Date: 21.12.2020

# Question No: 17

write a Java program to perform the following task.

Take an away rize of 20. Dandonly give the values between to and go and calculate the sum somewhenously and find the average. Now separate the values below average and above average in Arraylutes and finally print the both lists.

#### AIM:

To write a Java proform to delice an array with 20 values and reparate them into two array but based on the average of the mitial array.

### PROCEDURE:

- \* Declare an araylist which consists of
- 20 values rouging from 10 to 90. And 2 empty awaylist.
- \* Find the average of the arraylist by adding the runn by 20.
- \* Now traverse through the arraylist and check whither the values lust or greater than the average of the initial list.
- \* If the value is lesser add it to the any one of the empty arraylant so it will contain only values less than average and similarly for values greater than average.
- \* Thus at the end we get two average and another with values greater than average.

### PROGRAH: -

```
pachage away;
resport favoritil. x;
  public dans Harn h
       public stable vold nam ( thing & Dags) 2
           int [] A: new [] (10,15,20,25,50,35,40,48,50,50,
                            to, by, 70,75,80,85,86,87,88,893.
            1052 tin
            402 ( mt 120; (20; (++) h
                 S+ = ACiJ;
              ind ang : S/201
              Scanni sc = new Scanner ( System in);
              Arraylist < Irdiger > a1 = new Arrayrist < Irdiger > ();
              Away hit Ctuteger ? az : new Array List (Integrot);
            for (mt 1 =0; 1 220; 1+1) {
                if ( ACi) L= ang) &
                     ay add (A[i]);
                 else f
                    az. odd(A[i]);
               intx;
               System. ent. printen ("Avay lost with number
                                       less than arilage");
               for ( mt 1:0,12 aprizet); 1+1) {

X=apgetti);

Syetem and print(x+1");
```

Seythm. out printen filleway hist with number (positive thom average);

for ( int i=0; i \( \alpha\_2 \) size(); i ++) \( \alpha \)

\[
\times \alpha\_2 \) get(i);

\[
\times \times \times \);

\]

System \( \times \) print (\( \times \) ");

\[
\times \]

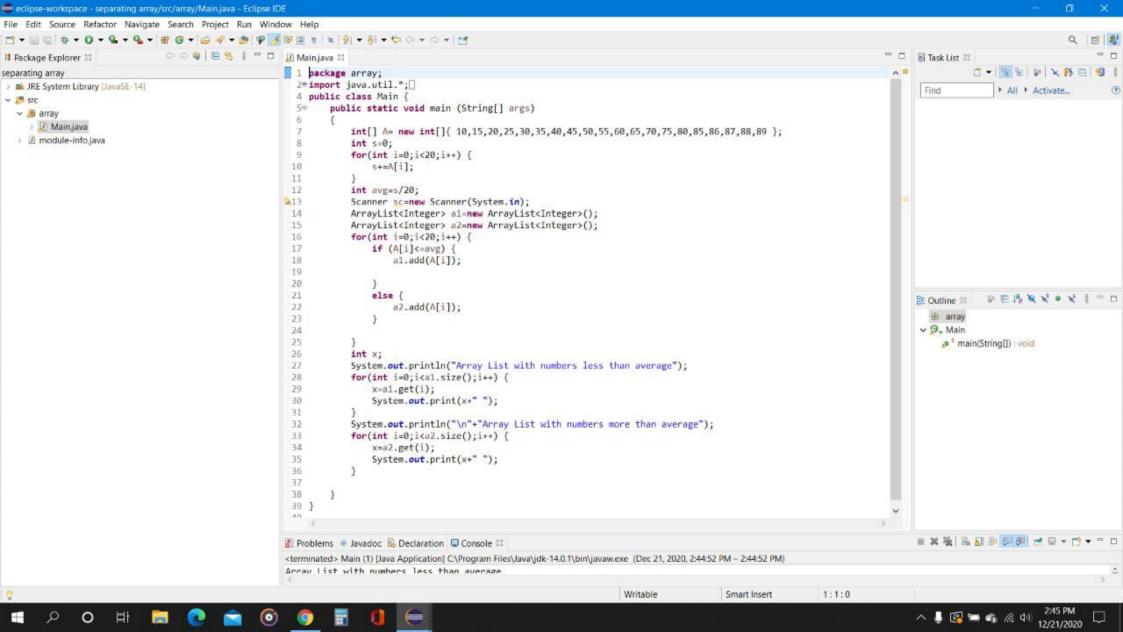
\]

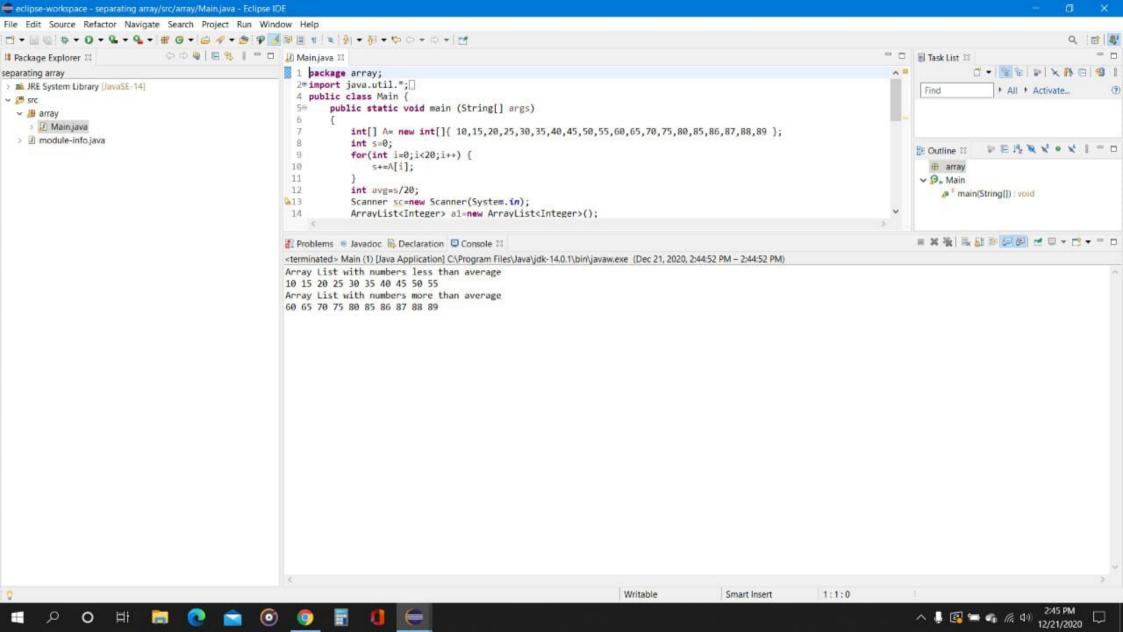
3

## SAMPLE OUTPUT: -

Array het with munder less throm average
10 15 20 25 30 35 40 45 50 55

Array hist with number more than average
60 65 70 75 80 85 86 87 88 89





## Rusull; -

thus the fava program to separate a array based on average is executed successfully.