1. Translate the following C++ like code into Assembly Language.

```
int a,b,c,d,eq,ls,gr,count;
a = 16;
b = 32;
c = 64;
d = 64;
e = a + b;
if(e==d)
      eq = 1;
else
      eq = 0;
if(e>d)
      gr = 1;
else
      gr = 0;
if(e < d)
      ls = 1;
else
      ls = 0;
            while(e!=d)
                   Count++;
      Cout<<"e is "<<count<<"times less than d"<<endl;
```

- 2. Create an array of size 10 and initialize it with user input values. Your task is to;
 - a. Find the Maximum & Minimum values.
 - b. Find the 3rd Maximum & 3rd Minimum values.
 - c. Sort the array using bubble sort algorithm.

3.

Using the following table as a guide, write a program that asks the user to enter an integer test score between 0 and 100. The program should display the appropriate letter grade:

Score Range	Letter Grade
90 to 100	A
80 to 89	В
70 to 79	С
60 to 69	D
0 to 59	F

Note: Don't use if else directives. Only use **cmp instruction** with jump related instructions. **Remember:** All conditional jump instructions which we studied in this lab are related with CMP Instruction i.e.

CMP AL, JE EQUAL	BL
CMP AL, JNE ABOVE	ВН
ABOVE: EQUAL:	