## **Handout 8**

```
main.cpp \times
              int main()
                                                                                                                       III "C:\Users\THE LAPTOP SHOP\Desktop\Intro To Software Engineering\Source Cod
                    int no_students;
                    cout<<"Enter the students number:"<<endl;</pre>
                                                                                                                       Enter the students number:
                    cin>>no_students;
int students_grade[no_students];
                                                                                                                       nter the grade of student number:1:
    12
                   for(int i=0;i<no_students;i++) {
   cout<<"Enter the grade of student number:"<<i+1<<":"<<endl;</pre>
                                                                                                                       nter the grade of student number:2:
    13
   14
15
16
17
18
19
                         cin>>students_grade[i];
                                                                                                                       inter the grade of student number:3:
                                                                                                                       nter the grade of student number:4:
                    for(int i=0;i<no_students;i++){</pre>
                                                                                                                       tudent number1, got the A.
                         if(students_grade[i]>=85){
cout<<"Student number"<<i+1<<","<<" got the A."<<endl;</pre>
                                                                                                                       Student number2, got the F. Student number3, got the F. Student number4, got the B.
   20
21
22
                         else if(students_grade[i]>=75)(
cout<<"Student number"<<i+1<<","<<" got the B."<<endl;</pre>
                                                                                                                       Process returned 0 (0x0) execution time : 11.715 s
Press any key to continue.
   23
24
25
26
27
28
                         else if(students_grade[i]>=70)(
cout<<"Student number"<<i+1<<","<<" got the C."<<endl;</pre>
                         else if(students_grade[i]>=60){
cout<<"Student number"<<i+1<<","<<" got the D."<<endl;</pre>
   30
31
                               cout<<"Student number"<<i+1<<","<<" got the F."<<endl;
    33
```

 $\frac{5|06|7/3/2|1|20}{5|06|7/3/2|1|20}$  = 70701 + itentiolis.

```
int main()

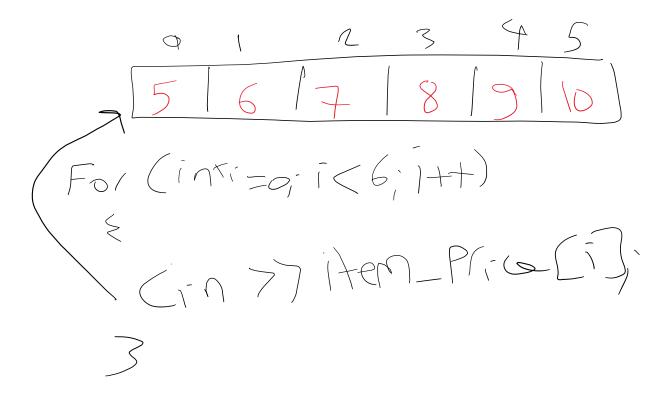
{
   int total_price=0;
   int no_items;

   cout<<"Enter the number of items:"<<endl;
   cin>>no_items;
   int itemprice[no_items];
   for(int i=0;i<no_items;i++) {
      cout<<"Enter the item price number"<<(i+1)<<":"<<endl;
      cin>>itemprice[i];

}

for(int i=0;i<no_items;i++) {
      total_price=total_price+itemprice[i];
   }
   cout<<"Total price is equall:"<<total_price<<endl;</pre>
```

```
#include <iostream>
 2
 3
       using namespace std;
       int main()
 5
 6
    □ {
 7
           float total_score=0;
 8
           int no_grades;
 9
           cout<<"Enter the grades number:"<<endl;</pre>
10
           cin>>no_grades;
11
           int subject_grade[no_grades];
12
13
           for(int i=0;i<no_grades;i++) {</pre>
14
               cout<<"Enter the subject grade:"<<i+1<<":"<<endl;</pre>
15
               cin>>subject_grade[i];
               total_score=total_score+subject_grade[i];
16
17
18
19
           cout<<"Total Score"<<total score<<endl;</pre>
20
           cout<<"You achieved "<<((total score/(no grades*100))*100)<<"%"<<endl;</pre>
21
22
23
24
25
26
```



```
1
       #include <iostream>
 2
 3
       using namespace std;
 4
 5
       int main()
 6
 7
           int maximum=0;
 8
           int no items;
 9
           cout<<"Enter the items"<<endl;</pre>
10
           cin>>no items;
11
           int items_price[no_items];
12
           for(int i=0;i<no items;i++){</pre>
13
                cout<<"Enter the item price no"<<(i+1)<<end1;</pre>
                cin>>items_price[i];
14
15
16
           for(int i=0;i<no_items;i++){</pre>
17
                if(items_price[i]>maximum) {
18
                    maximum=items_price[i];
19
20
21
22
           cout<<"The maximum number will be:"<<maximum<<end1;</pre>
23
```

A((aq -> 1) int al []= {1,2,3}; 3 0/4 înt 01/2 []=  ${\frac{2}{3}}$  Colorns 0 1 2 3

Row 0,1 0,2 0.3

1,0 1,1 1,2 1,3

Al [0] [0] 1

```
main.cpp ×
    1
           #include <iostream>
     2
     3
          using namespace std;
     4
     5
          int main()
     6
    7
           int array1[]={1,2,3};
    8
           int matrix1[3][3]={{1,2,3},{4,5,6},{7,9,1}};
    9
   10
           cout<<"The first value in array is"<<array1[0]<<end1;</pre>
   11
           cout<<"The first value in matrix is"<<matrix1[0][0]<<end1;</pre>
   12
   13
   14
   15
```

```
*main.cpp ×
     8
              int columns;
     9
              int rows;
    10
              cout<<"Enter the number of columns"<<endl;</pre>
    11
              cin>>columns;
    12
             cout<<"Enter the number of rows"<<endl;</pre>
    13
              cin>>rows;
    14
             int matrix[rows][columns];
    15
          for(int i=0;i<rows;i++) {
   for(int j=0;j<columns</pre>
    16
                                                                              ■ "C:\Users\THE LAPTOP SHOP\Desktop\Intro To Software Engineering\Sou
    17
                  for(int j=0;j<columns;j++) {</pre>
                       cout<<"Enter the element number("<<i<<", "{Enter the number of columns
    18
    19
                       cin>>matrix[i][j];
                                                                              Enter the number of rows
    20
    21
                                                                             Enter the element number(0,0)
10
Enter the element number(0,1)
               for(int i=0;i<rows;i++) {</pre>
    22
    23
                 for(int j=0;j<columns;j++) {</pre>
                                                                             20
Enter the element number(1,0)
    24
                      cout<<matrix[i][j]<<",";</pre>
    25
                  cout<<endl;
    26
                                                                              Enter the element number(1,1)
                                                                             40
10,20,
30,40,
    27
    28
```