Objective:

1. Take a ten element array and print the sum and average of them.

2.print largest element in array.

3.print only the odd number of the array

4.print the count of even number.

Description:

This is basic implementation lab work.

code:

```
#include<bits/stdc++.h>
using namespace std;
int n,i,sum,mx=-1111,cnt;
double avg;
int ar[200];
int main()
{
   for(i=0; i<10; i++)
   {
      cin>>ar[i];
      sum+=ar[i];
      if(ar[i]>=mx)
      {
         mx=ar[i];
      }
      if(ar[i]%2!=0)
         cout<<"Odd number of the array is : "<<ar[i]<<endl;
      else
         cnt++;
   }
   avg=(double)sum/10.0;
```

```
    cout<<"sum of the array is : "<<sum<<endl;
    cout<<"avg of the array is : "<<fixed<<setprecision(2)<<(double)avg<<endl;
    cout<<"the max element of the array is : "<<mx<<endl;
    cout<<"the number of event element is : "<<cnt<<endl;
    return 0;
}
```

code output:

```
coded by habib
10 9 8 7 6 5 4 3 2 1
Odd number of the array is : 9
Odd number of the array is : 7
Odd number of the array is : 5
Odd number of the array is : 3
Odd number of the array is : 1
sum of the array is : 55
avg of the array is : 5.50
the max element of the array is : 10
the number of event element is : 5

Process returned 0 (0x0)   execution time : 13.438 s
Press any key to continue.
```

Discussion:

It's important to start with raw basic implementation code practice before we start doing practice of Data structure core concept.