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Lab Manual 8:

Lab task:

Task 1:

```
#include <iostream>
 using namespace std;
int main(){
     int n;
     float sum, avg;
     cout<<"Enter the number of elements you want in an array";
     cin>>n;
     int array[n];
     for(int i=0; i<n; i++){
         cin>>array[i];
     for(int i=0; i<n; i++){
         cout<<array[i]<<" ";
     cout<<endl;
     for(int i=0; i<n; i++){
         sum= sum+array[i];
     avg=sum/n;
     cout<<"The average of the numbers is"<<avg;</pre>
}
```

```
Enter the number of elements you want in an array 7
2
3
4
5
6
7
8
2 3 4 5 6 7 8
The average of the numbers is5
```

Task 2:

```
#include <iostream>
using namespace std;
int main(){
    int array[5], temp;
cout<<"Enter the elements of the array";</pre>
    for(int i=0; i<5; i++){
        cin>>array[i];
    for(int i=0; i<5; i++){
        for(int j=0; j<4-i; j++){
             if(array[j]>array[j+1]){
                 temp=array[j];
                 array[j]=array[j+1];
                 array[j+1]=temp;
    for(int i=0; i<5; i++){
        cout<<array[i]<<" ";
   return 0;
}
```

```
Enter the elements of the array 4
99
77
56
232
4 56 77 99 232
------
Process exited after 6.544 seconds with return value 0
Press any key to continue . . .
```

Task 3:

```
#include <iostream>
 using namespace std;
int main(){
      int i,j,min,temp;
      int array[5];
      cout<<"Enter the elements of the array";
for(i=0; i<5; i++){</pre>
          cin>>array[i];
      for( i=0; i<4; i++){
          min=i;
          for( j=i+1; j<5; j++){
              if(array[j]<array[min]){</pre>
                  min=j;
          if(min!=i){
          temp=array[i];
          array[i]=array[min];
          array[min]=temp;
          for(i=0; i<5; i++){
              cout<<array[i];
          return 0;
. }
```