

## FUNDAMENTALS OF PROGRAMMING

### LAB MANUAL 8

### HOME TASKS

ME 15 \_ SECTION B

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#### TASK 1:

```
#include<bits/stdc++.h>

using namespace std;

int main (){

    int  a;

    cout<<"enter the  number of elements : "<<endl;

    cin>>a;

    int b[a];

    cout<<"enter the elements : "<<endl;

    for(int i=0;i<a;i++){

        cin>>b[i];

    }

    cout<<"the most repeated elements are "<<" ";
```

```
for(int i=0;i<a;i++){  
    bool repeat=false;  
    for(int j=0;j<i;j++){  
        if(b[i]==b[j]){  
            repeat=true;  
            break;  
        }  
    }  
    if(!repeat){  
        for(int j=i+1;j<a;j++){  
            if(b[i]==b[j]){  
                cout<<b[i]<<" ";  
                break;  
            }  
        }  
    }  
}
```

```
enter the number of elements :  
5  
enter the elements :  
8  
8  
8  
3  
3  
the most repeated elements are 8 3  
-----  
Process exited after 10.53 seconds with return value 0  
Press any key to continue . . .
```

## **TASK 2:**

```
#include<bits/stdc++.h>
```

```
using namespace std;
```

```
int main (){
```

```
    int i,j;
```

```
    int largenum=0;
```

```
    int smallnum=0;
```

```
    int array[8]={13,15,17,9,99,77,65,43};
```

```
    for(i=1;i<8;++i){
```

```
        if(array[i]<array[smallnum])
```

```
        {
```

```
            smallnum=i;
```

```
        }
```

```
    }
```

```
    cout<<"smallest number of array is"<<array[smallnum]<<endl;
```

```

        for(j=1;j<8;++j){
            if(array[j]>array[largenum]){
                largenum=j;
            }
        }

        cout<<"largest number of given array is"<<array[largenum]<<endl;
    }
}

```

### Output

```

/tmp/1fLRoUtjwV.o
smallest number of array is9
largest number of given array is99
|

```

### **TASK 3:**

```

#include <bits/stdc++.h>

using namespace std;

int main() {
    int i;

    int change=0;

    int array[5];

    cout<<"enter five elements of array"<<endl;

    for(i=0;i<5;++i){

```

```
        cin>>array[i];
    }

    change=array[2];
    array[2]=array[4];
    array[4]=change;
for(i=0;i<5;++i){
    cout<<array[i]<<'\\t';
}
}
```

### Output

```
/tmp/1fLRoUtjwW.o
enter five elements of array
2
7
9
4
1
2  7  1  4  9
```