```
C++ 1.cpp U X C++ 2.cpp U C++ 3.cpp U C++ 4.cpp U C++ 5.cpp U C++ 6.cpp U
 oppsLab > 2 > C++ 1.cpp > 分 main()
      #include<iostream>
       using namespace std;
      int main(){
        int n,max;
         cout<<"Enter the length of an array:"<<endl;</pre>
         int a[n];
        for (int i = 0; i < n; i++)
          cin>>a[i];
        max=a[0];
        for (int i = 0; i < n; i++)
        if (max<a[i])</pre>
            max=a[i];
  22
        cout<<"maximum value:"<<max;</pre>
          return 0;
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ g++ 1.cpp
akshat@VivoBook:-/Documents/C_plus_plus/oppsLab/2$ ./a.out
Enter the length of an array:
2 4 6 7
maximum value:7akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$
```

```
C++ 5.cp
oppsLab > 2 > C + 2.cpp > \bigcirc main()
      #include<iostream>
      using namespace std;
      int main(){
          //Name:Akshat Khosya
          //Roll:20106
         int n;
          cout<<"Enter the number:"<<endl;</pre>
          cin>>n:
           if (n%2==0)
 10
           {
 11
              cout<<"it is even";</pre>
 12
           }
 13
 14
           else
          cout<<"it is odd";</pre>
 15
          return 0;
 16
 17
```

```
maximum value:7akshat@VivoBook:~/Documents/C_plus_plus/oppsLa
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ ./a.out
Enter the number:
6
it is evenakshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$
```

```
oppsLab > 2 > C → 3.cpp > 分 main()
      #include <iostream>
       #include <cmath>
      using namespace std;
       int main()
          cout << "Enter an coefficient of quadratic equation a,b,c respectively:" << endl;</pre>
          cin >> a >> b >> c;
          d = ((b * b) - (4 * a * c));
          r1 = (-b + sqrt(d)) / 2 * a;
          r2 = (-b - sqrt(d)) / 2 * a;
          cout << "root1:" << r1 << endl;</pre>
          cout << "root2:" << r2 << endl;</pre>
          return 0;
      }
     akshat@VivoBook:~/Documer
                                                              Lab/2$ ./a.out
     Enter an coeffiecient of quadratic equation a,b,c respectively:
     - 4
    root1:3.41421
    root2:0.585786
n
4.
#include <iostream>
using namespace std;
class vote
int count[5] = \{0\}, spoilt = 0;
public:
vote()
cout << "enter 1 for candidate 1" << endl;
cout << "enter 2 for candidate 2" << endl;
cout << "enter 3 for candidate 3" << endl;
cout << "enter 4 for candidate 4" << endl;
cout << "enter 5 for candidate 5" << endl;
void voting()
int vote:
cout << "give your vote:";
```

G→ avoidContact.cpp U G→ evmHacking.cpp U G→ antiPalindrome.cpp U G→

C→ prefixZeros.cpp U

```
cin >> vote;
if (vote \leq 5 && vote \geq 1)
{
count[vote - 1]++;
}
else
{
spoilt++;
void results()
for (int i = 0; i < 5; i++)
cout << "votes for candidate" << i + 1 << " :" << count[i] << endl;
cout << "spoilt ballots votes :" << spoilt << endl;
};
int main()
{
//Name:Akshat Khosya
//Roll:20106
char c;
vote e;
do
{
e.voting();
\overline{<<} "want to vote? (y/n)" << endl;
cin >> c;
} while (toupper(c) == 'Y');
e.results();
return 0;
```

```
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ ./a.out
enter 1 for candidate 1
enter 2 for candidate 2
enter 3 for candidate 3
enter 4 for candidate 4
enter 5 for candidate 5
give your vote:4
want to vote? (y/n)
give your vote:4
want to vote? (y/n)
votes for candidate1 :0
votes for candidate2 :0
votes for candidate3 :0
votes for candidate4 :2
votes for candidate5 :0
spoilt ballots votes :0
```

```
oppsLab > 2 > C + 5.cpp > \bigcirc main()
     #include <iostream>
     using namespace std;
     int main()
     {
         //Name:Akshat Khosya
         //Roll:20106
         int n, sum = 0;
         cout << "Enter the number:" << endl;</pre>
         cin >> n;
 11
 12
         for (int i = 1; i \le n; i++)
 13
            sum = sum + i;
 15
         cout << "Sum of natural numbers:" << sum << endl;</pre>
 17
 19
         return 0;
     Я
 20
```

```
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ g++ 5.cpp
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ ./a.out
Enter the number:
4
Sum of natural numbers:10
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$
```

```
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ .
Enter the number:
567
reverse number is :765
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$
```

```
7.
oppscab > 2 > C++ 7.cpp >  main()
      #include <iostream>
       using namespace std;
       int main()
           //Roll:20106
           cout << "Enter the length of an array:" << endl;</pre>
           cin >> n;
           int a[n], e[n], o[n], index1 = 0, index2 = 0;
           for (int i = 0; i < n; i++)
 11
 12
               cin >> a[i];
 13
               if (a[i] % 2 == 0)
 14
 15
                   e[index1] = a[i];
 17
                   index1++;
               else
                   o[index2] = a[i];
 21
                   index2++;
 23
 25
           cout << "even array:" << endl;</pre>
           for (int i = 0; i < index1; i++)
               cout << e[i] << " ";
 29
           cout << " \n"
 32
                << "odd array:" << endl;
           for (int i = 0; i < index2; i++)
 33
 34
               cout << o[i] << " ";
           return 0;
```

```
akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$ ./a.out
Enter the length of an array:
4
1 2 3 4
even array:
2 4
odd array:
1 3 akshat@VivoBook:~/Documents/C_plus_plus/oppsLab/2$
```