

## OBJECTED ORIENTED PROGRAM

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### LAB TASK 01:

#### Practice # 1

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int arr[10], flag = 0, x = 0;
6      cout << "Enter values in array:\n";
7      for (int i = 0; i < 10; i++)
8          cin >> arr[i];
9      // Count even numbers
10     for (int j = 0; j < 10; j++) {
11         if (arr[j] % 2 == 0)
12             flag++;
13     }
14
15     // Create array for even numbers
16     int arr2[10];
17
18     // Store even numbers
19     for (int k = 0; k < 10; k++) {
20         if (arr[k] % 2 == 0) {
21             arr2[x] = arr[k];
22             x++;
23         }
24     }
25
26     // Print even numbers
27     cout << "Even numbers are:\n";
28     for (int y = 0; y < flag; y++)
29         cout << arr2[y] << " ";
30     return 0;
31 }
```

## Practice # 2

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int arr[3][3];
6      for(int i=0;i<3;i++){
7          for(int j=0;j<3;j++){
8              cin>>arr[i][j];
9              cout<<"enter values in array"<<endl;
10         }
11         // print odd numbers
12         for(int i=0;i<3;i++){
13             for(int j=0;j<3;j++){
14                 if(int arr[i][j]%2 !=0)
15                     cout<<arr[i][j]
16             }
17         }
18     }
19     return 0;
20
21
22 }
```

## Practice # 3

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int arr[3][3];
6
7      cout << "Enter values in array:\n";
8      for (int i = 0; i < 3; i++) {
9          for (int j = 0; j < 3; j++)
10             cin >> arr[i][j];
11     }
12
13     // print prime numbers
14     cout << "Prime numbers are:\n";
15     for (int i = 0; i < 3; i++) {
16         for (int j = 0; j < 3; j++) {
17             int num = arr[i][j];
18             int count = 0;
19
20             if (num > 1) {
21                 for (int k = 1; k <= num; k++) {
22                     if (num % k == 0)
23                         count++;
24                 }
25
26                 if (count == 2) // prime condition
27                     cout << num << " ";
28             }
29         }
30     }
```