OBJECTED ORIENTED PROGRAM

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LAB TASK 01:

Practice # 1

```cpp
#include <iostream>
using namespace std;

int main() {
    int arr[10], flag = 0, x = 0;
    cout << "Enter values in array:\n";
    for (int i = 0; i < 10; i++)
        cin >> arr[i];
    // Count even numbers
    for (int j = 0; j < 10; j++) {
        if (arr[j] % 2 == 0)
            flag++;
    }

    // Create array for even numbers
    int arr2[10];

    // Store even numbers
    for (int k = 0; k < 10; k++) {
        if (arr[k] % 2 == 0) {
            arr2[x] = arr[k];
            x++;
        }
    }

    // Print even numbers
    cout << "Even numbers are:\n";
    for (int y = 0; y < flag; y++)
        cout << arr2[y] << " ";
        return 0;
}
```

Practice # 2

```cpp
#include <iostream>
using namespace std;

int main() {
    int arr[3][3];
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++)
        cin>>arr[i][j];
        cout<<"enter values in arry"<<endl;
    }
    // print odd numbers
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){
            if(int arr[i][j]%2 !=0)
            cout<<arr[i][j]
        }

    }
    return 0;

}
```

Practice # 3

```cpp
#include <iostream>
using namespace std;

int main() {
    int arr[3][3];

    cout << "Enter values in array:\n";
    for (int i = 0; i < 3; i++) {
        for (int j = 0; j < 3; j++)
            cin >> arr[i][j];
    }

    // print prime numbers
    cout << "Prime numbers are:\n";
    for (int i = 0; i < 3; i++) {
        for (int j = 0; j < 3; j++) {
            int num = arr[i][j];
            int count = 0;

            if (num > 1) {
                for (int k = 1; k <= num; k++) {
                    if (num % k == 0)
                        count++;
                }

                if (count == 2)   // prime condition
                    cout << num << " ";
            }
        }
    }
```