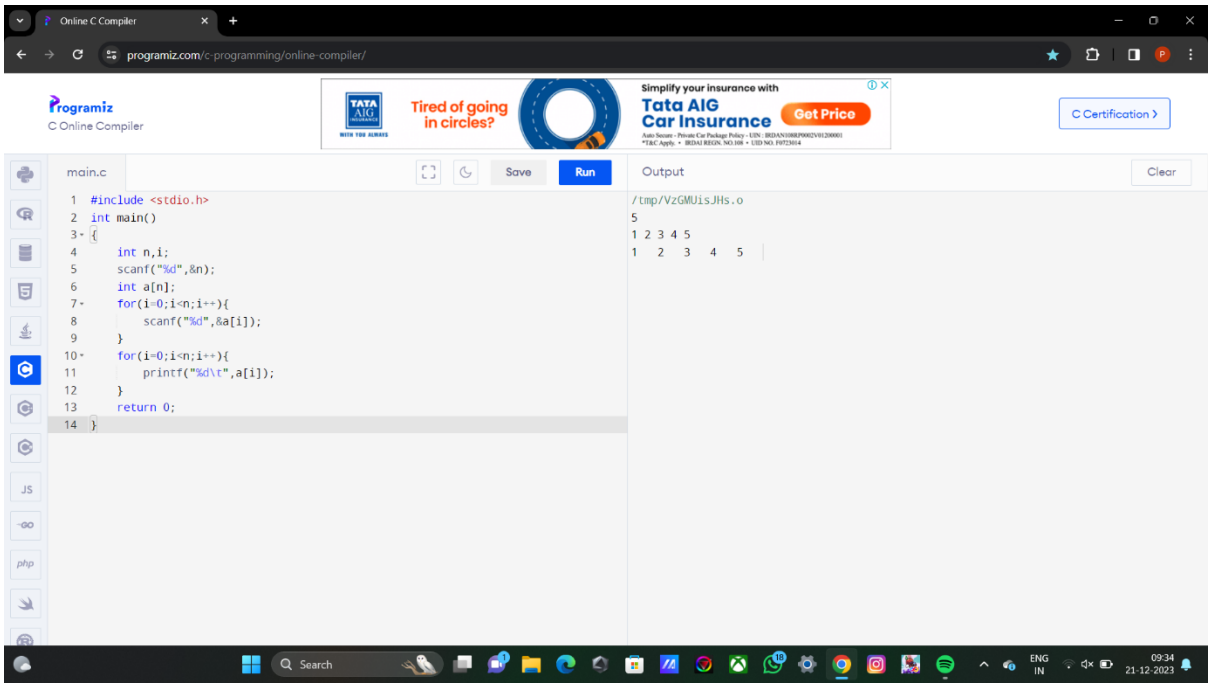
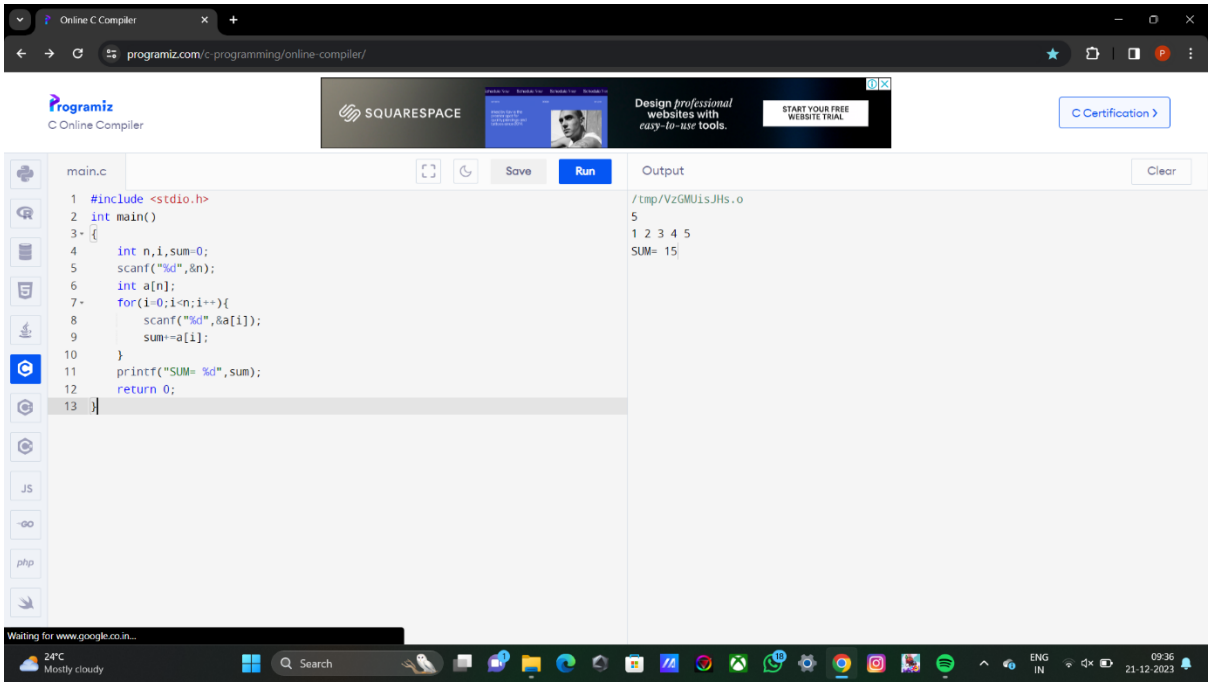
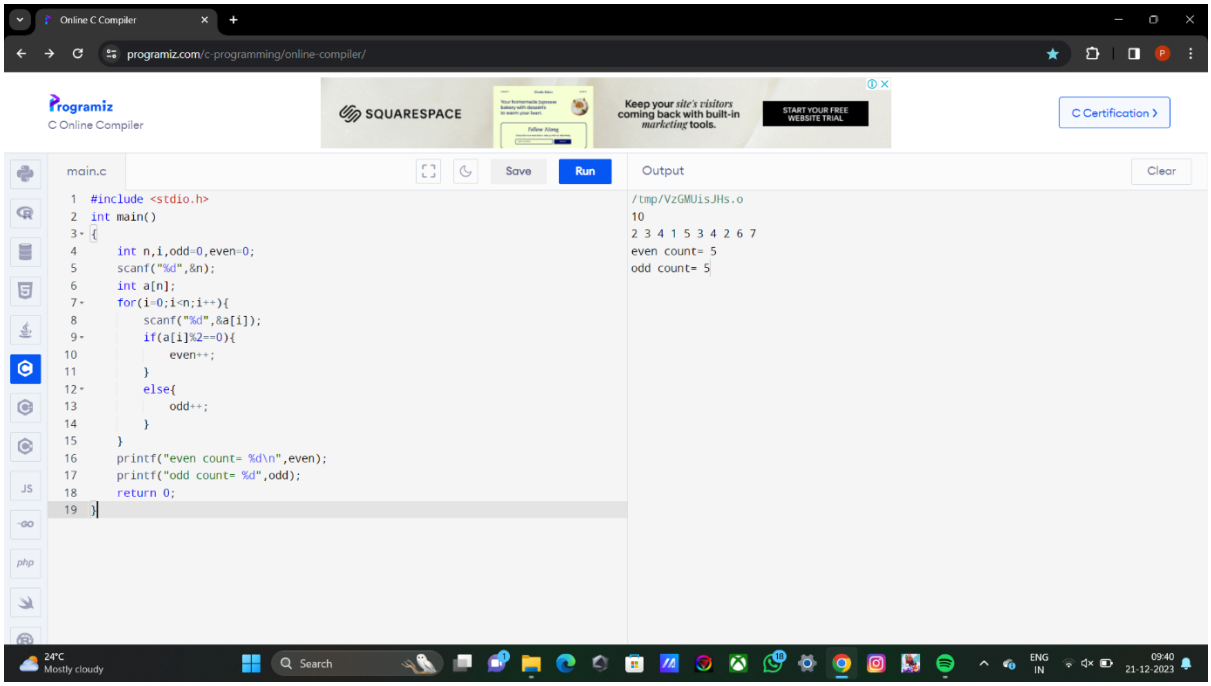
1. PROGRAM TO READ DATA AND PRINT DATA IN A ARRAY



2. SUM OF NUMBERS IN A ARRAY



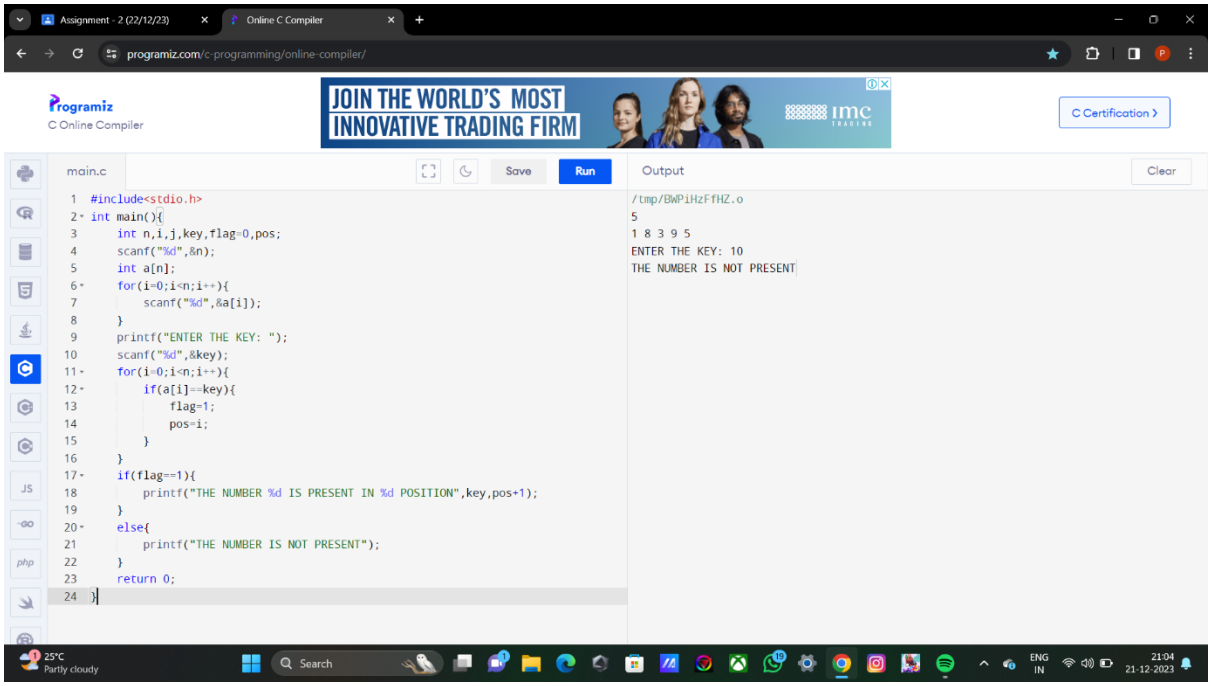
3. TO FIND COUNT OF ODD AND EVEN NUMBERS IN A GIVEN ARRAY.



```c
#include <stdio.h>
int main()
{
    int n,i,odd=0,even=0;
    scanf("%d",&n);
    int a[n];
    for(i=0;i<n;i++){
        scanf("%d",&a[i]);
        if(a[i]%2==0){
            even++;
        }
        else{
            odd++;
        }
    }
    printf("even count= %d\n",even);
    printf("odd count= %d",odd);
    return 0;
}
```

```
/tmp/VzGMUisJHs.o
10
2 3 4 1 5 3 4 2 6 7
even count= 5
odd count= 5
```

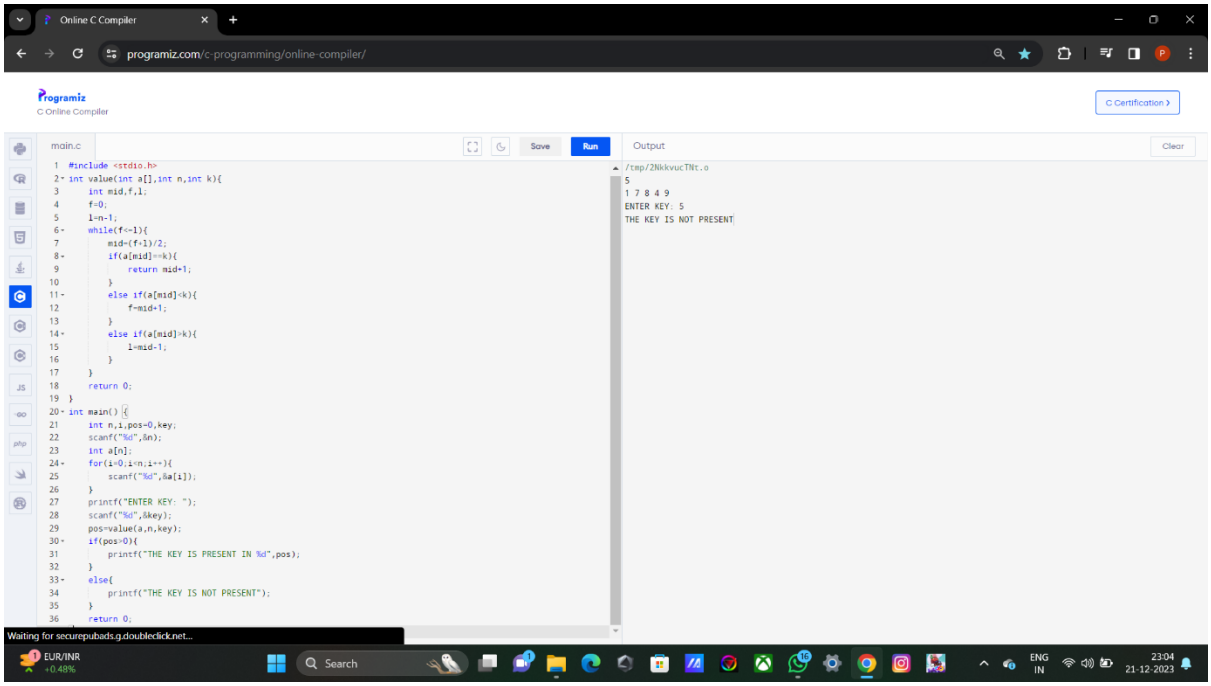
4. LINEAR SEARCH



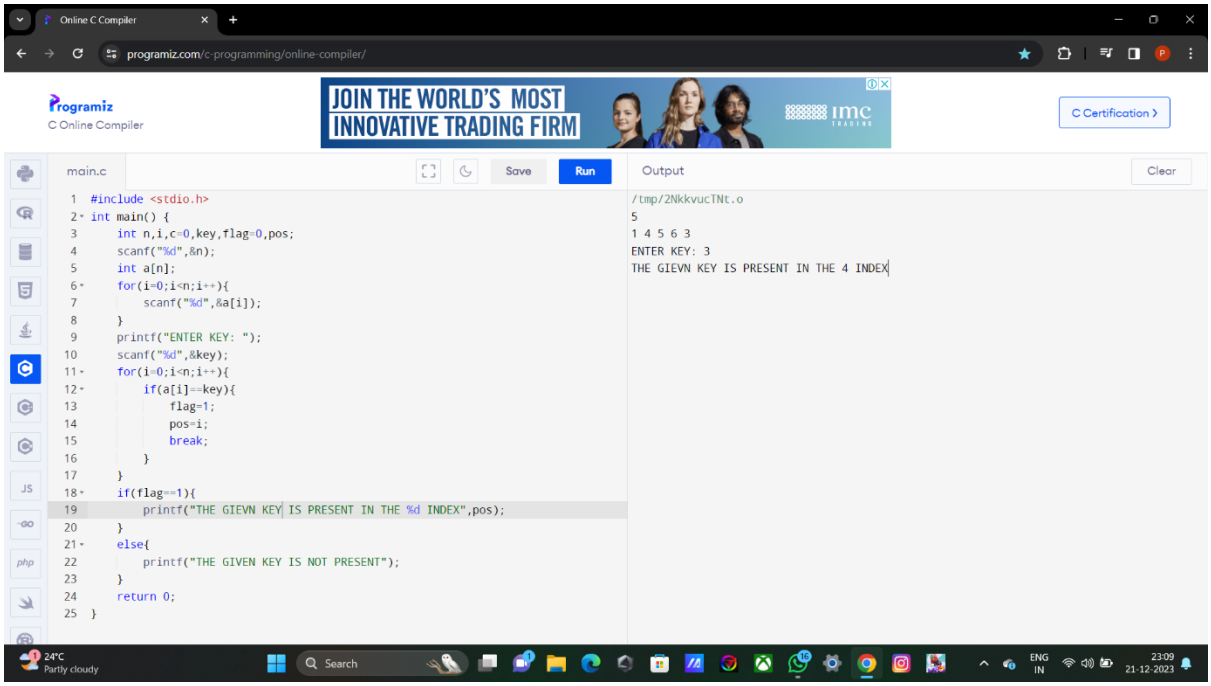
```c
#include<stdio.h>
int main(){
    int n,i,j,key,flag=0,pos;
    scanf("%d",&n);
    int a[n];
    for(i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    printf("ENTER THE KEY: ");
    scanf("%d",&key);
    for(i=0;i<n;i++){
        if(a[i]==key){
            flag=1;
            pos=i;
        }
    }
    if(flag==1){
        printf("THE NUMBER %d IS PRESENT IN %d POSITION",key,pos+1);
    }
    else{
        printf("THE NUMBER IS NOT PRESENT");
    }
    return 0;
}
```

```
/tmp/BWPiHzFfHZ.o
5
1 8 3 9 5
ENTER THE KEY: 10
THE NUMBER IS NOT PRESENT
```

5. BINARY SEARCH



6. LINEAR SEARCH TO PRINT WITH INDEX POSITION



7. INSERTION OF AN KEY ELEMENT IN THE GIVEN POSITION.