



**Name: Khizar Ali**

**Roll No: 22P-9269**

**Subject: Programing Fundamentals LAB**

**Submitted to: Muhammad Usman**

## Problem: 1

```
#include<stdio.h>
int main()
{
    int a[9],i,j,count=0;
    for(i=0;i<9;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<9;i++)
    {
        int flag=1;
        for(j=2;j<a[i]/2;j++)
        {
            if(a[i]%j==0)
            {
                flag=0;
                break;
            }
        }
        if(flag==1)
        {
            count++;
        }
    }
    printf("The prime numbr in array %d",count);
    return 0;
}
```

```
PS C:\Users\p22-9269\Desktop\Khizar\Pf lab\EX 09> gcc 1.c
```

```
PS C:\Users\p22-9269\Desktop\Khizar\Pf lab\EX 09> ./a.exe
```

```
2
```

```
3
```

```
4
```

```
6
```

```
9
```

```
4
```

```
2
```

```
5
```

```
4
```

```
The prime numbr in array 7
```

## Problem 2

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>

int main(){
    int i=0,sum;
    int count[13] = {0};
    srand(time(0));
    while (i<=1000)
    {
        sum = rand()%6 + rand()%6 + 2;
        count[sum]++;
        i++;
    }
    for(i=2;i<=12;i++)
    {
        printf("%d appears %d times\n",i,count[i]);
    }
    return 0;
}
```

```
PS C:\Users\p22-9269\Desktop\Khizar\Pf lab\EX 09> gcc 2.c
PS C:\Users\p22-9269\Desktop\Khizar\Pf lab\EX 09> ./a.exe
2 appears 31 times
3 appears 45 times
4 appears 76 times
5 appears 104 times
6 appears 134 times
7 appears 199 times
8 appears 133 times
9 appears 101 times
10 appears 89 times
11 appears 55 times
12 appears 33 times
```