ASSIGNMENT-2

AIM:-Write a program to check the entered address is IPV4 or not.

```
#include<iostream>
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<ctype.h>
#include<stdlib.h>
using namespace std;
void limitcheck(int dot,char ip[]);
int main(){
        int count=0,i;
        char str[16];
        cout<<"Enter the IP address:";
        cin>>str;
        for(i=0;i<strlen(str);i++){</pre>
               if(str[i]=='.'){
                        count++;
               }
        }
        cout<<"No. of Dots in the IP address:"<<count<<endl;
        if(count==3){
               limitcheck(count,str);
       }
        else{
               cout<<"\nInvalid IP:No. of dots not equal to 3.\n";
       }
return 0;
void limitcheck(int dot,char ip[]){
        char s[16];
        int val=0,flag=0;
        int k,asc,j;
        int i=0;
        while(dot >= 0){
               for(j=0;(ip[i]!='.')&&(i<=strlen(ip));i++,j++){}
                        s[j]=ip[i];
               }
               s[j]='\0';
               val=atoi(s);
               if(val >= 0\&val <= 255){
                       flag++;
               else{
```

```
cout<<"Invalid IPV4:Out of 0-255 range\n";
                       return;
               for(k=0;k<strlen(s);k++){
                       asc=(int)(s[k]);
                       if(asc>=48 && asc<=57){}
                       else{
                              cout<<"Invalid IPV4:Out of digit range\n";
                               return;
                       }
               }
                       i++;
                       dot--;
               if(flag==4){
                       cout<<"Valid IPV4 address\n";
                       return;
               }
               else{
                       cout<<"Invalid IPV4 address\n";</pre>
                       return;
       }
}
```

OUTPUT-

```
Enter the IP address:1.89.245.255
No. of Dots in the IP address:3
(Valid IPV4 address

Process exited after 10.37 seconds with return value 0

Press any key to continue . . .
```