

ASSIGNMENT-1

AIM:-Write a program to identify classes in IPV4 address.

```
#include<stdio.h>
#include<stdlib.h>
void main()
{
    char a[5],ip[16];
    int k=0,i=0;
    printf("Enter the IP address:");
    scanf("%s", ip);
    while(ip[i]!='.')
    {
        a[i]=ip[i];
        i++;
    }
    a[i]='\0';
    k=atoi(a);
    if(k>=0 && k<=127)
        printf("\nClass A address");
    else if(k>=128 && k<=191)
        printf("\nClass B address");
    else if(k>=192 && k<=223)
        printf("\nClass C address");
    else if(k>=224 && k<=239)
        printf("\nClass D address");
    else if(k>=240 && k<=255)
        printf("\nClass E address");
    else
        printf("\nNot a valid IP address");
}
```

OUTPUT-

```
Enter the IP address:109.23.45.67
```

```
Class A address
```

```
Enter the IP address:255.255.255.255
```

```
Class E address
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console. □
```