

LAB CAT – 1

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Code –

```
#include <bits/stdc++.h>

using namespace std;

int main()
{
    char ip[30],c;
    cout<<"\nEnter the IP address: ";
    gets(ip);
    int i = 0,num = 0, j = 1;;
    while (ip[i] != '.')
    {
        i++;
    }
    i--;
    while (i >= 0)
    {
        num = num + (ip[i] - '0') * j;
        j = j * 10;
        i--;
    }
}
```

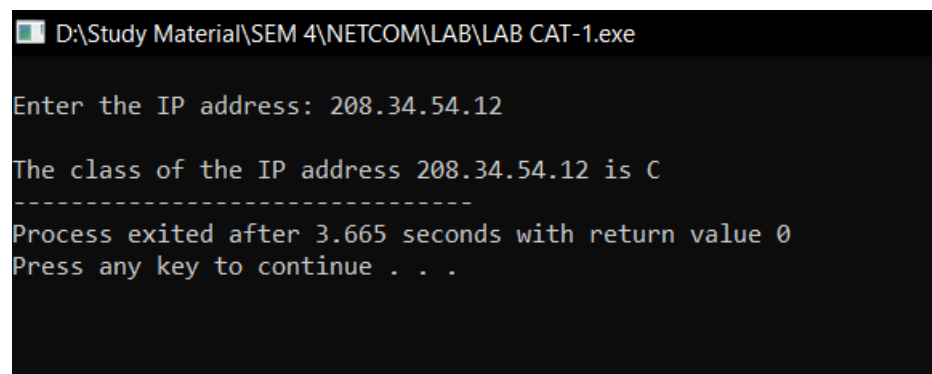
```

if (num >= 1 && num <= 126)
    c = 'A';
else if (num >= 128 && num <= 191)
    c = 'B';
else if (num >= 192 && num <= 223)
    c = 'C';
else if (num >= 224 && num <= 239)
    c = 'D';
else
    c = 'E';
cout<<"\nThe class of the IP address "<<ip<<" is "<<c;
return 0;
}

```

Outputs –

A)



```

D:\Study Material\SEM 4\NETCOM\LAB\LAB CAT-1.exe
Enter the IP address: 208.34.54.12
The class of the IP address 208.34.54.12 is C
-----
Process exited after 3.665 seconds with return value 0
Press any key to continue . . .

```

B)

```
D:\Study Material\SEM 4\NETCOM\LAB\LAB CAT-1.exe

Enter the IP address: 238.34.2.1

The class of the IP address 238.34.2.1 is D
-----
Process exited after 2.899 seconds with return value 0
Press any key to continue . . .
```

C)

```
D:\Study Material\SEM 4\NETCOM\LAB\LAB CAT-1.exe

Enter the IP address: 114.34.2.8

The class of the IP address 114.34.2.8 is A
-----
Process exited after 4.918 seconds with return value 0
Press any key to continue . . .
```

D)

```
D:\Study Material\SEM 4\NETCOM\LAB\LAB CAT-1.exe

Enter the IP address: 129.14.6.8

The class of the IP address 129.14.6.8 is B
-----
Process exited after 3.729 seconds with return value 0
Press any key to continue . . .
```