Assignment Title:- Implementing a Java Program to determine class of an IP Address

Assignment No:- 4

Date:- 23-02-2022

Q) Write a Java program to determine the class of an IP Address.

**Algorithm:**

**Step 1:** Take the IP Address as an input from the user

**Step 2:** Slice the IP Address up to the first dot (.) which will be the first octet and cast it as an integer

**Step 3:** Determine in which range this value falls according to the following table and print the class of the IP Address.

|  |  |
| --- | --- |
| **Range** | **Class** |
| 0-127 | Class A |
| 128-191 | Class B |
| 192-223 | Class C |
| 224-239 | Class D |
| 240-255 | Class E |

**Code:**

import java.util.\*;

class Soln

{

void func()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the IP Address");

String s=sc.nextLine();

int x=Integer.parseInt(s.substring(0,s.indexOf('.')));

if(x>=0 && x<=127)

System.out.println("Class A");

else if(x>=128 && x<=191)

System.out.println("Class B");

else if(x>=192 && x<=223)

System.out.println("Class C");

else if(x>=224 && x<=239)

System.out.println("Class D");

else

System.out.println("Class E");

}

}

public class Ip\_class\_det

{

public static void main(String args[])

{

Soln obj=new Soln();

obj.func();

}

}

**Output:**

