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| Course: | Computer Networks (DJ12CEL405) |
| Date of Performance: |  |
| Date of Submission: |  |
| Experiment  No.: | 07 |
| Aim: | Determine class of IP Address |

**AIM: DETERMINE CLASS OF IP ADDRESS.**

**CODE:**

#include<stdio.h>

#include<string.h>

char findClass(char str[])

{

    char arr[5];

    int i = 0;

    while (str[i] != '.')

    {

        arr[i] = str[i];

        i++;

    }

    i--;

    int ip = 0, j = 1;

    while (i >= 0)

    {

        ip = ip + (str[i] - '0') \* j;

        j = j \* 10;

        i--;

    }

    if (ip >=1 && ip <= 127)

        return 'A';

    else if (ip >= 128 && ip <= 191)

        return 'B';

    else if (ip >= 192 && ip <= 223)

        return 'C';

    else if (ip >= 224 && ip <= 239)

        return 'D';

    else if (ip >= 240 && ip <= 254)

        return 'E';

    else

        printf("Invalid IP");

    return 'Z';

}

int main()

{

    char str[] = {};

    printf("Enter an IP Address: ");

    scanf("%[^\n]s",str);

    char ipClass = findClass(str);

    printf("IP Address: %s\n", str);

    if (ipClass != 'Z'){

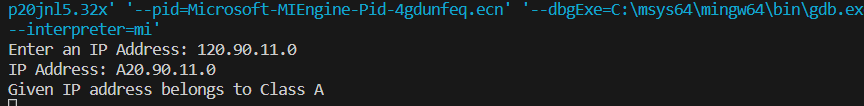
        printf("Given IP address belongs to Class %c\n", ipClass);

    }

    return 0;

}

**OUTPUT:**

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