

**Name of Student** : Kalpesh Naik  
**Class** : D4B

**Date** :- 07/11/2023  
**Roll No.** : 29

**Program Objective** : - Program to understand the concept of dynamic memory Allocation

```
#include <stdio.h>

#include <stdlib.h>

#include <string.h>

int main(){

char *name;

name=(char *)malloc(11);

strcpy(name,"Ram Dev");

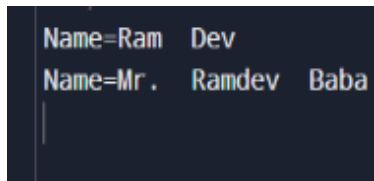
printf("\nName=%s\n", name);

name=(char *)realloc(name,23);

strcpy(name,"Mr. Ramdev Baba");

printf("Name=%s\n",name );

}
```

A screenshot of a terminal window showing the output of the C program. The first line of output is "Name=Ram Dev" and the second line is "Name=Mr. Ramdev Baba". The text is displayed in a light blue/cyan color on a dark background.

```
Name=Ram Dev
Name=Mr. Ramdev Baba
```

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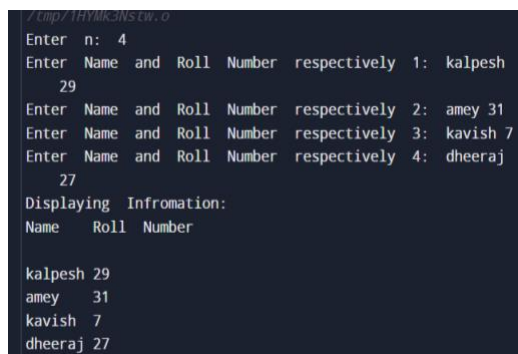
**Program Objective** : - Program to understand the concept of dynamic memory Allocation

```
#include <stdio.h>

#include <stdlib.h>

struct name {
    int a;
    char c[30];
};

int main(){
    struct name *ptr;
    int i,n;
    printf("Enter n: ");
    scanf("%d",&n);
    ptr=(struct name*)malloc(n*sizeof(struct name));
    for(i=0;i<n;++i){
        printf("Enter Name and Roll Number respectively %d: ",i+1);
        scanf("%s%d",(ptr+i)->c, &(ptr+i)->a);
    }
    printf("\n\nDisplaying Infromation:\nName\tRoll Number\n\n");
    for(i=0;i<n;++i)
        printf("%s\t%d\t\n",(ptr+i)->c,(ptr+i)->a);
    return 0; }
```



```
Enter n: 4
Enter Name and Roll Number respectively 1: kalpesh
29
Enter Name and Roll Number respectively 2: amey 31
Enter Name and Roll Number respectively 3: kavish 7
Enter Name and Roll Number respectively 4: dheeraj
27
Displaying Infromation:
Name    Roll Number
kalpesh 29
amey    31
kavish  7
dheeraj 27
```