



# KIET Group of Institutions, Ghaziabad

## Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Session 2020-21

### Experiment – No-4

Objective: Program to implement condition statement in C language		
Scheduled Date	Compiled Date	Submission Date
08-feb-2021	13-feb-2021	15-feb-2021

## Program1:decimal to octal using format specifier and vice versa

### Algorithm:

Step 1 :Start

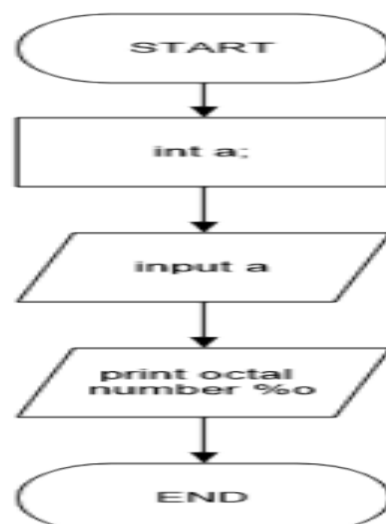
Step 2: Enter any integer a.

Step 3: print octal number using %o.

Step 4: print decimal number using %d.

Step 5: End.

### Flowchart:



## Program:

```
#include<stdio.h>

#include<conio.h>

void main()

{

    int a;

    printf("Enter the decimal number :");

    scanf("%d",&a);

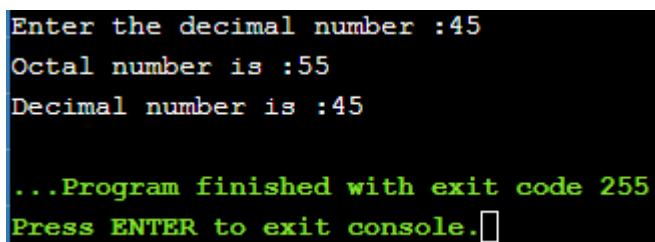
    printf("Octal number is :%o",a);

    printf("\nDecimal number is :%d",a);

    getch();

}
```

## Output:



```
Enter the decimal number :45
Octal number is :55
Decimal number is :45

...Program finished with exit code 255
Press ENTER to exit console.█
```

## Program2:decimal to hexadecimal using format specifier and vice versa

## Algorithm:

Step 1 :Start

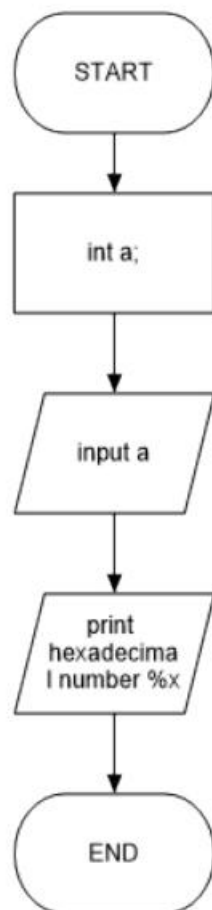
Step 2: Enter any integer a.

Step 3: print Hexa decimal number using %x.

Step 4: print decimal number using %d.

Step 5: End.

## Flowchart:



## Program:

```
#include<stdio.h>

#include<conio.h>

void main()
{
    int a;

    printf("Enter the decimal number :");

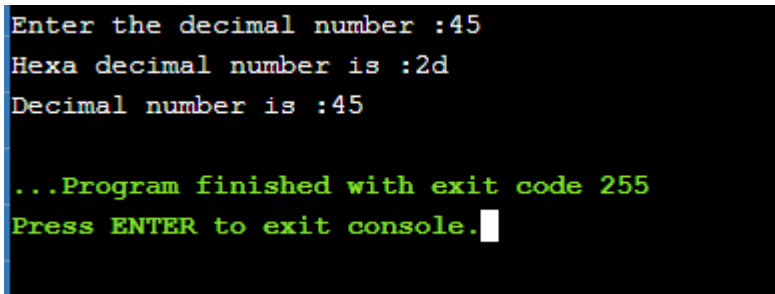
    scanf("%d",&a);

    printf("Hexa decimal number is :%x",a);

    printf("Decimal number is :%d",a);

    getch();
}
```

## Output:



```
Enter the decimal number :45
Hexa decimal number is :2d
Decimal number is :45
...Program finished with exit code 255
Press ENTER to exit console.
```

## Program3:octal to hexadecimal and vice versa

### Algorithm:

Step 1 :Start

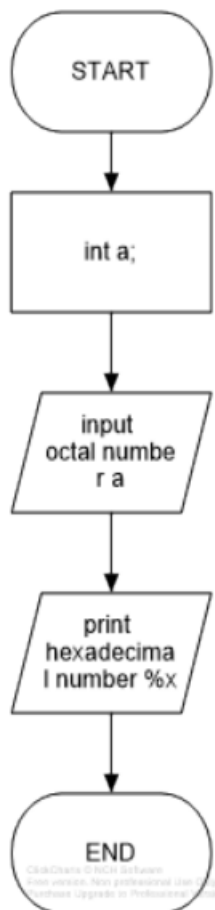
Step 2: Enter any octal number a

Step 3: print Hexa decimal number using %x.

Step 4: print octal number using %o.

Step 5: End.

## Flowchart:



## Program:

```
#include<stdio.h>

#include<conio.h>

int main()

{
```

```
int a;

printf("Enter the octal number :");

scanf("%o",&a);

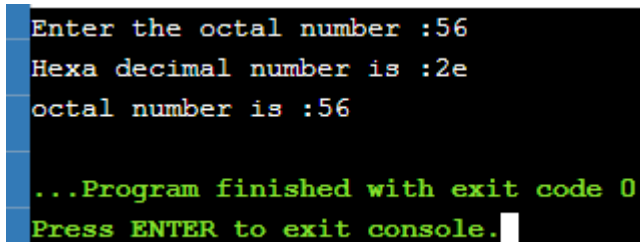
printf("Hexa decimal number is :%x\n",a);

printf("octal number is :%o",a);

return 0;

}
```

## Output:



```
Enter the octal number :56
Hexa decimal number is :2e
octal number is :56

...Program finished with exit code 0
Press ENTER to exit console.
```

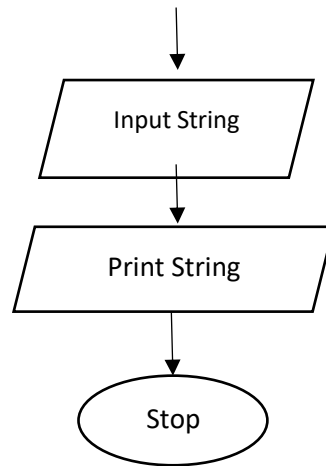
## Program4:string input and output function ( gets and puts)

### Algorithm :

- Step 1: Start
- Step 2: Enter String using gets() function
- Step 3: Print String using puts() function
- Step 4: Stop

### Flowchart :





## Program :

```
#include<stdio.h>

int main()
{
    char ch[30];
    printf("Enter a String :");
    gets(ch);
    printf("You have entered : \n");
    puts(ch);
}
```

## Output:

```
Enter a String :nehabansal
You have entered :
nehabansal
```

## Program5:use scanf function to insert space into the string

## Algorithm:

Step 1 :Start

Step 2: Enter any sentence a.

Step 3: print complete sentence.

Step 4: End.

## Program:

```
#include <stdio.h>

int main()
{
    char a[30];

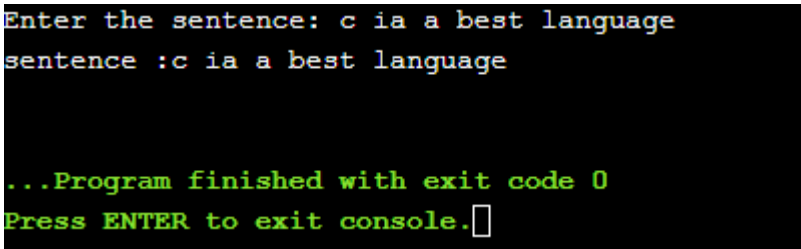
    printf("Enter the sentence: ");

    scanf("%[^\n]",a);

    printf("sentence :%s\n",a);

    return 0;
}
```

## Output:



```
Enter the sentence: c ia a best language
sentence :c ia a best language

...Program finished with exit code 0
Press ENTER to exit console.
```

## Program6:uses of 6 function from string.h

### Program:

```
#include <string.h>
```



```

#include <stdio.h>

int main()
{
    char c1[50];

    char c2[50] ;

    printf("Enter two string :");

    scanf("%s %s",&c1,&c2);

    strcat(c1,c2);                //strcat() function contcatenates (joins) two strings

    printf("%s\n",c1);


    int res = strcmp(c1,c2);        //compares the two strings

    if (res == 1)

        printf("Strings are equal");

    else

        printf("Strings are unequal");


    printf("\nLength of string is: %lu",strlen(c1));        //calculates the length of a given string

    return 0;

}

```

## Output:

```

Enter two string :krishna institute
krishnainstitute
Strings are unequal
Length of string is: 16

```