

Operators in C Language

1. Write a program to print unit digit of a given number

```
#include<stdio.h>

int main()
{
    int a;

    printf("enter the number: ");
    scanf("%d",&a);

    printf("unit place is %d",a%10);
    return 0;
}
```

2. Write a program to print a given number without its last digit.

```
#include<stdio.h>

int main()
{
    int a;

    printf("enter number: ");
    scanf("%d",&a);

    printf("given number without last digit is %d",a/10);
    return 0;
}
```

3. Write a program to swap values of two int variables

```
#include<stdio.h>

int main()
{
    int a,b,temp;
    printf("enter any two number for swaping a and b respectively: ");
    scanf("%d %d",&a,&b);
    temp=a;
    a=b;
    b=temp;
    printf("a=%d b=%d",a,b);
    return 0;
}
```

4. Write a program to swap values of two int variables without using a third variable.

```
#include<stdio.h>

int main()
{
    int a,b;
    printf("enter two value: ");
    scanf("%d %d",&a,&b);
    a=a+b;
    b=a-b;    //a
    a=a-b;    //b
    printf("a = %d , b = %d ",a,b);
    return 0;
}
```

5. Write a program to input a three-digit number and display the sum of the digits.

```
#include<stdio.h>

int main()
{
    int a,b,c;

    printf("enter three number: ");

    scanf("%d %d %d",&a,&b,&c);

    printf("%d+%d+%d=%d",a,b,c,a+b+c);

    return 0;
}
```

6. Write a program which takes a character as an input and displays its ASCII code.

```
#include<stdio.h>

int main()
{
    char c;

    printf("enter any character:");

    scanf("%c",&c);

    printf("ascii code of \"%c\" is %d ",c,c);

    return 0;
}
```

7. Write a program to find the position of first 1 in LSB.

```
#include<stdio.h>

int main()
{
    int a,pos=1;
    printf("enter number: ");
    scanf("%d",&a);
    while(a%2==0)
    {
        pos++;
        a=a/2;
    }
    printf("position of first 1 in LSB is %d",pos);
    return 0;
}
```

8. Write a program to check whether the given number is even or odd using a bitwise operator.

```
#include<stdio.h>

int main()
{
    int a;
    printf("enter the number: ");
    scanf("%d",&a);
    if((a&1)%2==0)
        printf("given number is even");
    else
        printf("given number is odd");
    return 0;
}
```

9. Write a program to print size of an int, a float, a char and a double type variable

```
#include<stdio.h>

int main()
{
    printf("size of int is %d\n",sizeof(int));
    printf("size of float is %d\n",sizeof(float));
    printf("size of char is %d\n",sizeof(char));
    printf("size of double is %d\n",sizeof(double));
    return 0;
}
```

10. Write a program to make the last digit of a number stored in a variable as zero.

(Example - if x=2345 then make it x=2340)

```
#include<stdio.h>

int main()
{
    int a;

    printf("enter number: ");
    scanf("%d",&a);
    printf("%d is converted into %d ",a,(a/10)*10);
    return 0;
}
```

11. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)

```
#include<stdio.h>

int main()
{
    int a,b;

    printf("enter two number to append ");
    scanf("%d %d",&a,&b);

    printf("%d is append with digit %d and result is %d",a,b,a*10+b);
    return 0;
}
```

12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

```
#include<stdio.h>

int main()
{
    float usd,inr;

    printf("enter the INR: ");
    scanf("%f",&inr);

    printf("%f INR is %f USD",inr,inr/76.23);
    return 0;
}
```

13. Write a program to take a three-digit number from the user and rotate its digits by one position towards the right.

```
#include<stdio.h>

int main()
{
    int a;
    printf("enter number: ");
    scanf("%d",&a);
    printf("%d is converted into %d when digit rotate by one position right",a,(a/10)+(a%10)*100);
    return 0;
}
```