Operators in C Language

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

```
#include<stdio.h>
int main()
  {
      int x,y;
      printf("enter the number:");
      scanf("%d",&x);
      printf("The unit digit of a given number is %d",x%10);
      return 0;
   }
```

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

```
#include<stdio.h>
int main()
    {
        int x,y;
        printf("enter the number:");
        scanf("%d",&x);
        printf("number without its last digit is %d",x/10);
        return 0;
     }
```

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

```
#include<stdio.h>
int main()
   {
        int x,y,z;
        printf("enter the numbers:");
        scanf("%d %d",&x,&y);
        z=x;
        x=y;
        y=z;
        printf("the swap value are a=%d b=%d",x,y);
        return 0;
     }
```

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

```
#include<stdio.h>
int main()
   {
        int x,y;
        printf("Enter the no:");
        scanf("%d %d",&x,&y);
        x=x+y;
        y=x-y;
        x=x-y;
        printf("x=%d and y=%d",x,y);
        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 x,i,s=0;
    printf("Enter the three digit no.");
    scanf("%d",&x);

      i=x%10;
      s=s+i;
      x=x/10;

      i=x%10;
      s=s+i;
      x=x/10;

      i=x%10;
      s=s+i;
      x=x/10;

     printf("sum of the digits is %d",s);
      return 0;
  }
```

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

```
#include<stdio.h>
int main()
  {
      char x='A';
      printf("the ASCII value of given char is %d",x);
      return 0;
   }
```

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

```
#include<stdio.h>
int main()
    {
       int x, count=1;
       printf("Enter the the no:");
       scanf("%d",&x);
       while(x!=0)
           {
              if(x&1==1)
                 {
                     printf("%d",count);
                     break;
                 }
              else
                {
                     count++;
                     x=x>>1;
                }
           }

      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 x;
                printf("Enter the no:");
                scanf("%d",&x);
                        {
                            if(x&1==1)
                                printf("Given no is odd");
                             else
                                 printf("Given no is even");
                         }
                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()
    {
       int x;
       float y;
       char z;
       double a;
       printf("%d \n",sizeof(x));
       printf("%d \n",sizeof(y));
       printf("%d \n",sizeof(z));
       printf("%d \n",sizeof(a));
       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 x,y;
      printf("Enter the the no:");
      scanf("%d",&x);
      y=x/10*10;
      printf("%d",y);
      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 x,y,a;
        printf("Enter the the no:");
        scanf("%d %d",&x,&y);
        a=x*10+y;
        printf("%d",a);
       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 i,r;
          printf("Enter the amount in INR :");
          scanf("%f",&i);
           r=i/76.23;
          printf("USD of given no is %f USD",r);
          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 x,y;
          printf("Enter the no:");
          scanf("%d",&x);
          while(x!=0)
            {
                y=x%10;
                x=x/10;
                printf("%d",y);
            }
        return 0;
    }
```