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

```
#include<stdio.h>
int main()
{
    int N;
    printf("enter a number");
    scanf("%d",&N);
    printf("%d",N%10);
    return 0;
}
```

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

```
#include<stdio.h>
int main ()
{
    int num,digit;
    printf("enter a number of digit");
    scanf("%d",&num);

    digit=num%10;
    printf("Last Digit of %d is: %d", num, digit);
    return 0;
```

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

```
#include<stdio.h>
int main() {
  double first, second, temp;
  printf("Enter first number: ");
  scanf("%lf", &first);
  printf("Enter second number: ");
  scanf("%lf", &second);

temp = first;
```

```
first = second;
```

```
second = temp;
```

```
// %.2lf displays number up to 2 decimal points
printf("\nAfter swapping, first number = %.2lf\n", first);
printf("After swapping, second number = %.2lf", second);
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=10, b=20;
  printf("Before swap a=%d b=%d",a,b);

a=a+b;//a=30 (10+20)
b=a-b;//b=10 (30-20)
a=a-b;//a=20 (30-10)
  printf("\nAfter swap a=%d b=%d",a,b);
  return 0;
}
```

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

```
#include <stdio.h>
int main()
{
    int n,l,f,m,sum,t1;
    printf("Enter 3-Digit Number: ");
    scanf("%d",&n);
    f=n/100;
    t1=n%100;
    l=t1%10;
    m=t1/10;
    printf("\nFirst Digit = %d \nMiddle Digit = %d \nLast Digit = %d\n",f,m,l);
    sum=l+m+f;
    printf("\nSum of All 3-Digits : %d",sum);
    return 0;
}
```

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

```
#include <stdio.h>
int main() {
   char c;
   printf("Enter a character: ");
   scanf("%c", &c);

   // %d displays the integer value of a character
   // %c displays the actual character
   printf("ASCII value of %c = %d", c, c);

   return 0;
}
```

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

```
#include <stdio.h>
void main()
   int n, len, pos = 0, i = 0, count = 0;
   printf("**Finding the position of 1-bits in a number for given length**\n");
   printf("enter a number\n");
   scanf("%d", &n);
   printf("enter the length\n");
   scanf("%d", &len);
   while (i <= 32)
       if ((n & 1) == 1) //checking whether there is a 1-bit in the current position
           count++;//counting the consecutive 1's in the integer
           pos = i;
           if (count == len) //checking whether the length matches
               break;
        if ((n & 1) == 0)
           count = 0;
   printf("the position of 1 in the string : %d\n", pos);
```

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

#include <stdio.h>

```
int main()
{
  int num;
```

```
/* Input number from user */
printf("Enter any number: ");
scanf("%d", &num);
```

```
if(num & 1)
{
    printf("%d is odd.", num);
}
else
{
    printf("%d is even.", num);
}
```

```
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 intType;
    float floatType;
    double doubleType;
    char charType;

// sizeof evaluates the size of a variable
    printf("Size of int: %zu bytes\n", sizeof(intType));
    printf("Size of float: %zu bytes\n", sizeof(floatType));
    printf("Size of double: %zu bytes\n", sizeof(doubleType));
    printf("Size of char: %zu byte\n", sizeof(charType));
    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 a number");
    scanf("%d",&a);

a=a/10;
    a=a*10;
```

```
printf("output of a number is %d",a);
  return 0;
}
```

11Write 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.

Source code

```
#include<stdio.h>
int main ()
{
    int x,r,s=0;
    printf("Enter a number");
    scanf("%d",&x);
    int m=x/10;
    while(x!=0)
```

```
{
    r=x%10;
    s=s+r;
    x=x/10;
    r=x;
}
```

```
printf("sum of a number= %d%d ",m,s);
```

```
return 0;
}
```

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

Source code

```
#include<stdio.h>
int main ()
{
   float INR,USD;
   printf("Enter a INR ");
   scanf("%f",&INR);

USD=INR/76.23;
```

```
printf("INR in USD =%f",USD);
return 0;
```

```
}
/*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 num,r;
    printf("Enter a number ");
    scanf("%d",&num);

    while(num>0)
{
      r=num%10;
      printf("76%d",r);
      num=num/10;
```

```
}
return 0;
```