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

Ans.

```c
#include<stdio.h>

int main()
{
    int num;
    printf("Enter a number:");
    scanf("%d",&num);
    printf("%d",num%10);
    return 0;
}
```

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

Ans.

```c
#include<stdio.h>

int main()
{
    int num;
    printf("Enter a number:");
    scanf("%d",&num);
    printf("%d",num/10);
    return 0;
}
```

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

Ans.

```c
#include<stdio.h>

int main()
{
    int a,b,temp;
    printf("Enter two values:");
    scanf("%d%d",&a,&b);
```

```c
    temp = a;
    a = b;
    b = temp;
    printf("After swapping two values a=%d and b=%d",a,b);
    return 0;
}
```

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

Ans.

```c
#include <stdio.h>
int main()
{
    int a, b;
    printf("Enter two values:");
    scanf("%d%d", &a, &b);
    a = a + b;
    b = a - b;
    a = a - b;
    printf("After swapping two values a=%d and b=%d", a, b);
    return 0;
}
```

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

Ans.

```c
#include <stdio.h>
int main()
{
    int num, sum = 0;
    printf("Enter a three digit number:");
    scanf("%d", &num);
    sum = num % 10;
    num = num / 10;
    sum += num % 10;
```

```
    num = num / 10;

    sum += num % 10;

    printf("%d", sum);

    return 0;

}
```

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

Ans.

```
#include<stdio.h>

int main()

{

    char ch;

    printf("Enter a character:");

    scanf("%c",&ch);

    printf("Ascii code of %c is %d",ch,ch);

    return 0;

}
```

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

Ans.

```
#include <stdio.h>

int main()

{

    int num;

    printf("Enter a number:");

    scanf("%d", &num);

    if (num & 1)

    {

        printf("Odd");

    }

    else

    {
```

```
        printf("even");
    }
    return 0;
}
```

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

Ans.

```
#include<stdio.h>
int main()
{
    int a;
    float k;
    char ch;
    double d1;
    printf("%d\n",sizeof(a));
    printf("%d\n",sizeof(k));
    printf("%d\n",sizeof(ch));
    printf("%d\n",sizeof(d1));
    return 0;
}
```

9. 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)

Ans.

```
#include<stdio.h>
int main()
{
    int num=236489;
    num = num / 10;
    num = num * 10;
    printf("%d", num);
    return 0;
}
```

10. 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)

Ans.

```c
#include<stdio.h>

int main()

{

    int num,digit;

    printf("Enter a number:");

    scanf("%d",&num);

    printf("Enter a digit");

    scanf("%d",&digit);

    num = num * 10 + digit;

    printf("%d",num);

    return 0;

}
```

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

Ans.

```c
#include<stdio.h>

int main()

{

    float priceOfOneUSDInINR=76.23, amountInINR, amountInUSD;

    printf("Enter the amount in Indian rupee:");

    scanf("%f",&amountInINR);

    amountInUSD = amountInINR / priceOfOneUSDInINR;

    printf("%f USD",amountInUSD);

    return 0;

}
```

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

Ans.

```c
#include <stdio.h>
int main()
{
    int num, temp;
    printf("Enter a three digit number:");
    scanf("%d", &num);
    temp = num % 10;
    num = num / 10;
    temp = temp * 100 + num;
    printf("%d", temp);
    return 0;
}
```