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

```
#include <stdio.h>
int main(int argc, char const *argv[])
{
    int num;
    printf("Enter Number = ");
    scanf("%d", &num);
    printf("Unit of given number = %d", num % 10);
    return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
    int num;
    printf("Enter number = ");
    scanf("%d", &num);
    printf("%d", num / 10);
    return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
   int a, b, temp;
   printf("Enter first number = ");
   scanf("%d", &a);
   printf("Enter second number = ");
   scanf("%d", &b);
   temp = a;
   a = b;
   b = temp;
   printf("\nFirst number = %d\n", a);
   printf("Second number = %d", b);
   return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
   int a, b;
   printf("Enter first number = ");
   scanf("%d", &a);
   printf("Enter second number = ");
   scanf("%d", &b);
   a = a + b;
   b = a - b;
   a = a - b;
   printf("\nFirst number = %d\n", a);
   printf("Second number = %d", b);
   return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
   int num, sum = 0, rem;
   printf("Enter three number = ");
   scanf("%d", &num);
   while (num != 0)
   {
      rem = num % 10;
      sum += rem;
      num /= 10;
   }
   printf("\nSum of the digit = %d", sum);
   return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
    char ch;
    printf("Enter a charecter = ");
    scanf("%c", &ch);
    printf("\nASCII value = %d", ch);
    return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
   int num, rem = 0;
   printf("Enter number = ");
   scanf("%d", &num);
   for (int count = 1; rem != 1; count++)
   {
      rem = num % 2;
      num /= 2;
      if (rem == 1)
         printf("\nLSB found in %d position", count);
   }
   return 0;
}
```

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

```
#include <stdio.h>
int main(int argc, char *argv[])
{
   int num1;
   printf("Enter number = ");
   scanf("%d", &num1);
   (num1 & 1) ? printf("Odd number") : printf("Even number");
   return 0;
}
```

Q.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 argc, char *argv[])
{
   printf("Size of int = %d byte\n", sizeof(int));
   printf("Size of float = %d byte\n", sizeof(float));
   printf("Size of char = %d byte\n", sizeof(char));
   printf("Size of double = %d byte\n", sizeof(double));
   return 0;
}
```

Q.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 argc, char *argv[])
{
    int num;
    printf("Enter number = ");
    scanf("%d", &num);
    num /= 10;
    num *= 10;
    printf("\nResult = %d", num);
    return 0;
}
```

Q.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 argc, char *argv[])
{
   int num, dig;
   printf("Enter number = ");
   scanf("%d", &num);
   printf("Enter digit = ");
   scanf("%d",&dig);
   printf("\nResult = %d",(num*10)+dig);
   return 0;
}
```

Q.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(int argc, char *argv[])
{
    float inr;
    printf("Enter INR = ");
    scanf("%f", &inr);
    printf("\nAmount in USD = %.2f", inr/76.23);
    return 0;
}
```

Q.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 argc, char *argv[])
{
    int num, rem, temp, i;
    printf("Enter three digit number = ");
    scanf("%d", &num);
    printf("\nDigit rotate towards right  = %d", (num % 10 )* 100 +  (num / 10));
    return 0;
}
```