

## Assignment - 2

### Operators in C language.

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

```
#include <stdio.h>
int main() {
    int num, rem;
    printf("Enter the number\n");
    scanf("%d", &num);
    rem = num % 10;
    printf("Unit digit of %d is %d", num, rem);
    return 0;
```

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

```
#include <stdio.h>
int main() {
    int num1, num2 = 1;
    printf("Enter the number\n");
    scanf("%d", &num1);
```

```
num2 = num1;
num1 = num2 / 10;
printf ("Entered value is %d and expected value is %d",
       num1, num2);
return 0;
}
```

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

↪ #include <stdio.h>

```
int main () {
    int num1, num2;
    int num1, num2, num3;
    printf ("Enter the number for swap two variables
            data");
    scanf ("%d %d", &num1, &num2);
    a = b;
    b = c;
    printf ("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.

↪ #include <stdio.h>

```
int main () {
    int num1, num2;
    printf ("Enter the value of A and B for Swap In");
    scanf ("%d %d", &num1, &num2);
    num1 = num1 + num2;
    num2 = num1 - num2;
    num1 = num1 - num2;
    printf ("A = %d and B = %d", num1, num2);
    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 num1, sum=0, i;
    printf ("Enter 3 digit number \n");
    scanf ("%d", &num1);
    for (i=1; i<3; i++) {
        num1 = num1 % 10;
        sum = sum + num1;
    }
    printf ("Sum of three digit is %d", sum);
    return 0;
}
```

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

```
#include <Stdio.h>
int main () {
    char ch;
    printf ("Enter a character");
    scanf ("%c", &ch);
    print ("ASCII is %d", ch);
```

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

```

~7 #include <stdio.h>
int main() {
    int num;
    printf("Enter any number\n");
    scanf("%d", &num);
    if (num & 1)
        printf("LSB of %d is set 1", num);
    else
        printf("LSB of %d is not 0", num);
    return 0;
}

```

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

```

~7 #include <stdio.h>
int main () {
    int num;
    printf("Enter a number\n");
    scanf ("%d", &num);
    if (! (num & 1))
        printf ("even");
    else
        printf ("odd");
    return 0;
}

```

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

```

~7 #include <stdio.h>
int main () {
    int num;
    num = sizeof (int);
    printf ("%d", num);
    return 0;
}

```

↗ float  
↗ double  
↗ char

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  $x = 2340$ )

~7 #include <stdio.h>

```
int main {
    int num1, num2;
    printf (" Enter the number\n");
    scanf ("%d", &num1);
    num2 = num1;
    num2 = num2 % 10;
    num1 = num1 - num2;
    printf (" Number is %d", num1);
    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. (Ex - num = 234 and digit = 9 then the resulting number is 2349)

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 = 76.23, INR, Res;
printf("Enter the INR rupees \n");
scanf("%f", &INR);
Res = INR/USD;
printf("INR is %f and USD %f", INR, Res);
return 0;
}
```

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

```
#include <stdio.h>
int main()
int num, res;
printf("Enter three digit numbers \n");
scanf("%d", &num);
res = num % 10;
printf("Number is %d and Result is %d", num, res);
return 0;
```