

## Assignment - 2

A Job Ready Bootcamp in C++, DSA and IOT, MySirG  
Operators in C Language

Submitted By:

Vishal Shaw

[bkr.vishalshaw@gmail.com](mailto:bkr.vishalshaw@gmail.com)

---

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

```
#include<stdio.h>

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

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

```
#include<stdio.h>

int main(){
    int num;
    printf("Enter a number(>9): ");
    scanf("%d", &num);
    printf("Number %d without its last digit is %d",num,num/10);
    return 0;
}
```

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

```
#include<stdio.h>

int main(){
    int a,b,temp;
    printf("Enter two numbers : ");
    scanf("%d %d", &a, &b);
    temp = a;
    a = b;
    b = temp;
    printf("After swapping numbers are: %d %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 a,b;
    printf("Enter two numbers: ");
    scanf("%d %d", &a, &b);
    a = a+b;
    b = a-b;
    a = a-b;
    printf("After swapping numbers are %d %d", a, b);
    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 a, dig = 0;
    printf("Enter a 3-digit number: ");
    scanf("%d", &a);
    while (a>0){
        dig += a%10;
        a = a/10;
    }
    printf("Sum of digits are: %d", dig);
    return 0;
}
```

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

```
#include<stdio.h>

int main(){
    char m;
    printf("Enter a character: ");
    scanf("%c", &m);
    printf("%c ASCII Code is -a %d", m,m);
    return 0;
}
```

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

```
#include<stdio.h>
int main(){
    int n, pos = 1, i = 0;
    printf("Enter a number: ");
    scanf("%d", &n);
    while (i==0){
        i = n&1;
        if(i == 1){
            printf("position of first 1 in LSB is : %d", pos);
            break;
        }
        else{
            n = n>>1;
            pos++;
        }
    }
    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 a;
    printf("Enter a number: ");
    scanf("%d", &a);
    if ((a&1) == 1)
        printf("%d is Odd",a);
    else
```

```
    printf("%d is even",a);  
    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 a;  
    float b;  
    char c;  
    double d;  
    printf("Size of int datatype variable is: %d", sizeof(a));  
    printf("\nSize of float datatype variable is: %d",  
sizeof(b));  
    printf("\nSize of char datatype variable is: %d",  
sizeof(c));  
    printf("\nSize of double datatype variable is: %d",  
sizeof(d));  
    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 num;  
    printf("Enter a number: ");  
    scanf("%d", &num);  
    num = num/10*10;  
    printf("Changed number is %d", num);  
    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 num, dig;
    printf("Enter a number and a digit to append: ");
    scanf("%d %d", &num, &dig);
    num = num*10+dig;
    printf("Result is : %d", num);
    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 inr;
    printf("Enter the amount in Rs: ");
    scanf("%f",&inr);
    inr = inr /76.23;
    printf("The amount is usd will be: %f usd",inr);
    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 dig=0,n;
    printf("Enter 3-digit number: ");
    scanf("%d",&n);
    while (n>0){
        dig = dig*10;
        dig = (dig+n%10);
        n = n/10;
    };
    printf("After shifting number by 1 digit to ri8: %d", dig);
    return 0;
}
```