**Assignment – 2**

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

Operators in C Language

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

#include<stdio.h>

int main()

{

    int a,n;

    printf("Enter a number\n");

    scanf("%d",&a);

    n = a %10;

    printf("\nUnit digit of given number is %d", n);

}

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

#include<stdio.h>

int main()

{

    int a,n;

    printf("Enter a number\n");

    scanf("%d",&a);

    n = a /10;

    printf("Number after removing its unit digit is %d", n);

}

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

#include<stdio.h>

int main()

{

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

    int a,b,c;

    printf("Enter two number\n");

    scanf("%d%d",&a,&b);

    c=a;

    a=b;

    b=c;

    printf("Number after swaping are %d and %d", a,b);

}

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

#include <stdio.h>

int main()

{

    double a, b;

    printf("Enter a: ");

    scanf("%lf", &a);

    printf("Enter b: ");

    scanf("%lf", &b);

    a = a - b;

    b = a + b;

    a = b - a;

    printf("After swapping, a = %.2lf\n", a);

    printf("After swapping, b = %.2lf", 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 n, sum = 0, m;

    printf("Enter a number:");

    scanf("%d", &n);

    while (n > 0)

    {

        m = n % 10;

        sum = sum + m;

        n = n / 10;

    }

    printf("Sum 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 c;

    printf("Enter a character: ");

    scanf("%c", &c);

    printf("ASCII value of %c = %d", c, c);

    return 0;

}

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

**N/A**

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

**operator.**

#include <stdio.h>

int main()

{

    int n;

    printf("Enter an integer\n");

    scanf("%d", &n);

    if (n & 1 == 1)

        printf("Odd\n");

    else

        printf("Even\n");

    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: %ld bytes \n", sizeof(a));

    printf("Size of float: %ld bytes \n", sizeof(b));

    printf("Size of char: %ld bytes \n", sizeof(c));

    printf("Size of double: %ld bytes", sizeof(d));

    return 0;

}

**10. Write a program to make the last digit of a number stored in a variable as zero.**

#include <stdio.h>

int main()

{

    // 10. Write a program to make the last digit of a number stored in a variable as zero.

    int a,n;

    printf("Enter a number");

    scanf("%d",&a);

    n = a/10;

    a = n\*10;

    printf("Revisied no. = %d",a);

    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()

{

    /\* 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)\*/

    int a,n;

    printf("Enter a number");

    scanf("%d",&a);

    printf("\n Enter a digit");

    scanf("%d",&n);

    printf("Appended no. = %d%d",a,n);

    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()

{

    /\* 12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and

convert it into USD.\*/

    float a,n;

    printf("Enter amount in rupees");

    scanf("%f",&a);

    n = a/76.23;

    printf("\n Amount in USD=%f", n);

    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()

{

    /\* 13. Write a program to take a three-digit number from the user and rotate its digits by

one position towards the right.\*/

    int a,l,t;

    printf("Enter a 3 digit no.");

    scanf("%d",&a);

    l = a%10;

    a = a/10;

    t = a%10;

    a = a/10;

    printf("\nRevisied no. = %d%d%d",a,l,t);

    return 0;

}