**Assignment - 2 A Job Ready Bootcamp in C++, DSA and IOT**

**Operators in C Language**

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

#include<stdio.h>

int main(){

    int i,u;

    printf("Enter a number: ");

    scanf("%d",&i);

    u=i%10;

    printf("Unit digit of %d is %d:",i,u);

    return 0;

}

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

#include<stdio.h>

int main(){

    int i, x;

    printf("Enter a number: ");

    scanf("%d",&i);

    x=i/10;

    printf("Given number without its last digit is: %d", x);

    return 0;

}

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

#include<stdio.h>

int main(){

    int a, b, c;

    printf("Write a number a: ");

    scanf("%d",&a);

     printf("Write a number b: ");

    scanf("%d",&b);

    c=a;

    a=b;

    b=c;

    printf("Swapped Value of a is : %d\n", a);

    printf("Swapped Value of b is: %d", 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 the value of a\n");

    scanf("%d",&a);

    printf("Enter the value of b\n");

    scanf("%d",&b);

    printf("Swapped values are a = %d, and b = %d",b,a);

    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 i,a,b,c,x,sum;

    printf("Enter a 3 digit number: ");

    scanf("%d",&i);

    a=i%10;

    b=i/100;

    x=i/10;

    c=x%10;

    sum=a+b+c;

    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 x;

    printf("Enter character:");

    scanf("%c",&x);

    printf("%d",x);

    return 0;

}

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

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

#include<stdio.h>

int main(){

    int x;

    printf("Enter a number: ");

    scanf("%d",&x);

    if(x&1==1)

    printf("Odd");

    else

    printf("Even");

    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,b,c,d;

    a=sizeof(int);

    printf("Size of int is: %d\n",a);

    b=sizeof(float);

    printf("Size of float is: %d\n",b);

    c=sizeof(char);

    printf("Size of char is: %d\n",c);

    d=sizeof(double);

    printf("Size of double is: %d\n",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 x, y, z;

    printf("Enter a number: ");

    scanf("%d",&x);

    y=x%10;

    z=x-y;

    printf("The new value is: %d",z);

    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 x, y;

    printf("Enter a number: ");

    scanf("%d",&x);

    printf("Enter a digit: ");

    scanf("%d",&y);

    printf("The new number is: %d%d",x,y);

    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, USD;

    printf("Enter amount in INR: ");

    scanf("%f",&INR);

    USD=INR/76.23;

    printf("%f INR in USD is %f", INR, USD);

    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 x,y,z,shift;

    printf("Enter a 3 digit number: ");

    scanf("%d",&x);

    y=x%10;

    z=x/10;

    shift=y\*100+z;

    printf("New value is: %d", shift);

    return 0;

}