**Assignment-2**

***Operators in C Language***

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Qno1 :- Write a program to print unit digit of a given number

\*/

#include<stdio.h>

int main()

{

    int n, s;

    printf("Enter the any number ");

    scanf("%d",&n);

    s = n%10;

    printf("The unit digit of a given number is %d",s);

    return 0;

}

/\*

Qno2:- Write a program to print a given number without its last digit.

\*/

#include<stdio.h>

int main()

{

    int n, s;

    printf("Enter the any three digits number ");

    scanf("%d",&n);

    s = n / 100;

    printf("The givennumber without its last digit %d",s);

    return 0;

}

/\*

Qno3:- write a program to swap values of two int variables

\*/

#include<stdio.h>

int main()

{

    int a, b, x;

    printf("Enter any two number ");

    scanf("%d %d",&a,&b);

    x = a;

    a = b;

    b = x;

    printf("The swap of %d and %d", a, b);

    return 0;

}

/\*

QNo4:- 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 any two number ");

    scanf("%d %d", &a, &b);

    a = a + b;

    b = a - b;

    a = a - b;

    printf("%d %d", a, b);

    return 0;

}

/\*

Qno5: Write a program to input a three digit number and display the sum of the digits.

\*/

#include<stdio.h>

int main()

{

    int n, s, c=0;

    printf("Enter the any three digits number ");

    scanf("%d", &n);

    s = n % 10;

    c = c + s;

    n = n / 10;

    s = n % 10;

    c = c + s;

    n = n / 10;

    s= n % 10;

    c = c + s;

    n = n / 10;

    printf("%d", c);

    return 0;

}

/\*

Qno6:- Write a program which takes a character as an input and display its ASCII code.

\*/

#include<stdio.h>

int main()

{

    char c;

    printf("Enter the any character ");

    scanf("%c", &c);

    printf("The ASCII code is %d ", c);

    return 0;

}

/\*

Qno7:- Write a program to find the position of first 1 in LSB.

\*/

#include<stdio.h>

int main()

{

    int n, count, result=0;

    printf("Enter any number ");

    scanf("%d",&n);

    while (n !=0)

    {

        result = n & 1;

        count++;

        if(result == 0)

        {

            printf("%d", count);

            break;

        }

        n >> 1;

    }

    return 0;

}

/\*

Qno8:- 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 the any number ");

    scanf("%d", &x);

    int result = x & 1;

    if (result == 1)

        printf("Odd Number");

    else

        printf("Even Number");

    return 0;

}

/\*

Qno9:- Write a program to print size of an int, a float, a char and a double type variable.

\*/

#include<stdio.h>

int main()

{

    int integer\_type;

    float float\_type;

    char character\_type;

    double double\_type;

    printf("%d\n",sizeof(integer\_type));

    printf("%d\n",sizeof(float\_type));

    printf("%d\n",sizeof(character\_type));

    printf("%d\n",sizeof(double\_type));

    return 0;

}

/\*

Qno10:- Write a program to make the last digits of a number stored in a variable as zero

(Example :- if x=2345 then make it x = 2340)

\*/

#include<stdio.h>

int main()

{

    int n, x, s;

    printf("Enter any number ");

    scanf("%d",&n);

    s = n;

    n = n / 10;

    x = n \* 10;

    printf("The new value of %d is %d", s, x);

    return 0;

}

/\*

Qno11:- 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 n, d, a;

    printf("Enter the any first number ");

    scanf("%d", &n);

    printf("Enter the any Second number ");

    scanf("%d12", &d);

    a = n \* 10 + d;

    printf("The resuting number of %d is %d", d, a);

    return 0;

}

/\*

Qno12:- Assume price of 1 USD in INR 76.23. Write a program

to take the amount in INR and convert it into USD.

\*/

#include<stdio.h>

int main()

{

    int i;

    float u;

    printf("Enter the INR amount ");

    scanf("%d", &i);

    u = i / 76.23;

    printf("The USD amount of %d is %f", i, u);

    return 0;

}

/\*

Qno13:- 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 b, n, rem, rot=0;

    printf("Enter the any three-digits number ");

    scanf("%d", &n);

    b = n;

    rem = n % 10;

    n = n / 10;

    rot = rem \* 100 + n;

    printf("The new value of %d is %d", b, rot);

    return 0;

}