Assignment no 2

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

Ans:-

#include<stdio.h>

int main()

{

    int n;

    printf("Enter a digit");

    scanf("%d",&n);

    printf("digit is %d",n%10);

    return 0;

}

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

#include<stdio.h>

int main()

{

    int n,digit;

    printf("Enter a digit");

    scanf("%d",&n);

    digit=n%10;

    printf("last digit is %d",digit);

    return 0;

}

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

#include<stdio.h>

int main()

{

    int a,b,temp;

    printf("Enter a number a:");

    scanf("%d",&a);

    printf("Enter a number b:");

    scanf("%d",&b);

    printf("before swapping\n");

    printf("a=%d\n",a);

    printf("a=%d\n",b);

    temp=a;

    a=b;

    b=temp;

    printf("after swapping\n");

    printf("a=%d\n",a);

    printf("a=%d\n",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 a number a:");

    scanf("%d",&a);

    printf("Enter a number b:");

    scanf("%d",&b);

    printf("before swapping\n");

    printf("a=%d\n",a);

    printf("a=%d\n",b);

    a=a+b;

    b=a-b;

    a=a-b;

    printf("after swapping\n");

    printf("a=%d\n",a);

    printf("a=%d\n",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,digit;

    printf("Enter a number:");

    scanf("%d",&n);

    while (n>0)

    {

        digit=n%10;

        sum=sum=digit;

        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 n;

    printf(" Enter a charator :");

    scanf("%c",&n);

    printf("%d\n",n);

    return 0;

}

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

#include<stdio.h>

int main()

{

    int x;

    printf("Enter a Number");

    scanf("%d",&x);

    (x&1)?printf("LBS of %d is set (1)",x):printf("LBS of %d is unset(0)",x);

    }

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 value for x :");

    scanf("%d",&x);

    if (x%2 == 0)

    {

        printf("even number");

    }

    else

    {

        printf("odd number");

    }

   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 x;

    float f;

    double d;

    char kartik;

    printf("Size of int: %zu bytes\n", sizeof(x));

    printf("Size of float: %zu bytes\n", sizeof(f));

    printf("Size of double: %zu bytes\n", sizeof(d));

    printf("Size of char: %zu byte\n", sizeof(kartik));

    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)

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)

12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

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