//Operators in C Language Assignment-02

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

#include<stdio.h>

int main()

{

    int x;

    printf("Enter a number:-");

    scanf("%d",&x);

    printf("Unit digit of %d is %d",x,x%10);

    return 0;

}

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

#include<stdio.h>

int main()

{

    int x;

    printf("Enter a number:-");

    scanf("%d",&x);

    printf("%d",x/10);

    return 0;

}

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

#include<stdio.h>

int main()

{

    int a=10,b=20,t;

    t=a;

    a=b;

    b=t;

    printf("a=%d and b=%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=10,b=20;

    a=a+b;

    b=a-b;

    a=a-b;

    printf("a=%d,b=%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 x,remainder,sum=0;

        printf("Enter a Three Digit Number:-");

        scanf("%d",&x);

        remainder=x%10;

        x=x/10;

        sum=sum+remainder;

        remainder=x%10;

        x=x/10;

        sum=sum+remainder;

        remainder=x%10;

        x=x/10;

        sum=sum+remainder;

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

        return 0;

    }

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

#include<stdio.h>

int main()

    {

        int x,count=0,result=0;

        printf("Enter a Number:-");

        scanf("%d",&x);

        while(x!=0)

        {

        result=x&1;

        count++;

        if(result==1)

        {

            printf("%d",count);

            break;

        }

        x=x>>1;

        }

        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 x;

        printf("Enter a number:-");

        scanf("%d",&x);

        if(x&1)

        printf("Number is odd\n");

        else

        printf("Number is 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 x;

        char c;

        float f;

        double d;

        printf(" Size of an int is %d\n",sizeof(x));

        printf(" Size of an int is %d\n",sizeof(c));

        printf(" Size of an int is %d\n",sizeof(f));

        printf(" Size of an int is %d\n",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 x;

        printf("Enter a number:-");

        scanf("%d",&x);

        x=x/10;

        x=x\*10;

        printf("%d",x);

        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("%d",x\*10+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 USD,INR;

    printf("Enter INR amount:-");

    scanf("%f",&INR);

    USD=INR/76.23;

    printf("The amount in USD is %f dollar",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,r,q,result;

    printf("Enter a three digit number:-");

    scanf("%d",&x);

    q=x/10;

    r=x%10;

    result=r\*100+q;

    printf("%d",result);

    return 0;

}