Assignment -2

**Operators in c language**

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

#include<stdio.h>

int main (){

    int a,b;

printf("\n enter a number:");

scanf("%d",&a);

b=a%10;

printf("\n unit digit of %d is :%d",a,b);

return 0;

}

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

#include<stdio.h>

int main(){

    int n,x;

    printf("enter a number:");

    scanf("%d",&n);

    x=n/10;

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

    return 0;

}

3.write a program to swap values of two int variable.

#include<stdio.h>

int main (){

    int a,b;

    printf("a=%d",a);

    scanf("%d",&a);

    printf("b=%d",b);

    scanf("%d",&b);

    a=a+b;

    b=a-b;

    a=a-b;

    printf("a=%d b=%d",a,b);

return 0;

}

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

#include<stdio.h>

int main (){

    int a,b;

    printf("a=%d",a);

    scanf("%d",&a);

    printf("b=%d",b);

    scanf("%d",&b);

    a=a+b;

    b=a-b;

    a=a-b;

    printf("a=%d b=%d",a,b);

return 0;

}

5.write a program to input three digit number and display the sum of the digit.

#include<stdio.h>

int main(){

    int n,a,b,c,sum,t;

    printf("enter three digit number:");

    scanf("%d",&n);

    a=n/100;

    t=n%10;

    b=t/10;

    c=t%10;

    sum=a+b+c;

    printf("sum of the numbers:",sum);

    return 0;

}

6.write a program which takes a character as an input and display its ASCII code.

#include<stdio.h>

int main(){

    char a;

    printf("enter a character:");

    scanf("%c",&a);

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

    return 0;

}

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

#include<stdio.h>

int main(){

    int n;

    printf("enter a number:");

    scanf("%d",&n);

    n&1?printf("1 is present in LSB"):printf("1 is not present in LSB");

    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 a;

    printf("enter a number:");

    scanf("%d",&a);

   (a&1)?printf("even"):printf("odd");

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:%d \n",a);

    b=sizeof(char);

    printf("size of char:%d \n",b);

    c=sizeof(float);

    printf("size of float:%d \n",c);

    d=sizeof(double);

    printf("size of double:%d \n",d);

    return 0;

}

10.write a program to make the last digit of a number stored in a variable.

#include<stdio.h>

int main(){

    int n,sum,lastdigit;

    printf("enter a number:");

    scanf("%d",&n);

     lastdigit=n%10;

    sum=n-lastdigit;

    printf("last number stored as zero:%d",sum);

    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.

#include<stdio.h>

int main(){

    int a,b;

    printf("enter a number:");

    scanf("%d",&a);

    printf("enter a digit:");

    scanf("%d",&b);

    printf("resulting number is :%d%d",a,b);

    return 0;

}

12. assume price of 1 USB in INR 76.23 write a program to take the amount in INR and convert it into USB.

#include<stdio.h>

int main(){

    float a,x;

    printf("enter a amount in INR:");

    scanf("%f",&a);

    x=a/73;

    printf("USB :%f",x);

    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 n,f,m,l;

    printf("enter a number:");

    scanf("%d",&n);

    f=n%10;

    m=n/10%10;

    l=n/100;

    printf("rotates the digits:%d%d%d",f,m,l);

    return 0;

}