**Assignment – 2**

Operators in C Language

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

**Ans:**

**Code**

#include<stdio.h>

int main() {

    int n;

    printf("Enter a Number");

    scanf("%d",&n );

    printf("unit digit of a number is : %d", n%10);

    return 0;

}

**Output**

Enter a Number 434

unit digit of a number is : 4

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

**Ans.**

**Code**

#include<stdio.h>

int main() {

    int n;

    printf("Enter a Number");

    scanf("%d",&n );

    printf("number without last digit is : %d", n/10);

    return 0;

}

**Output**

Enter a Number324

number without last digit is : 32

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

**Ans:**

**Code**

#include<stdio.h>

int main() {

    int a,b,c=0;

    printf("Enter two Number(a,b)");

    scanf("%d %d",&a,&b );

    c=a;

    a=b;

    b=c;

    printf("swap numbers (a,b) : %d%d",a,b  );

    return 0;

}

**Output**

Enter two Number(a,b)3 4

swap numbers (a,b) : 43

**4. Write a program to swap values of two int variables without using a third variable**

**Ans:**

**Code**

int main() {

    int a,b;

    printf("Enter two Number(a,b)");

    scanf("%d %d",&a,&b );

    b=b+a;

    a=b-a;

    b=b-a;

    printf("swap numbers (a,b) : %d%d",a,b );

    return 0;

}

**Output**

Enter two Number(a,b)2 3

swap numbers (a,b) : 32

**5. Write a program to input a three-digit number and display the sum of the digits**

**Ans:**

**Code:**

#include<stdio.h>

int main() {

    int n,a,b,c;

    printf("Enter 3 digit Number");

    scanf("%d",&n );

    a=n/100; //  3

    b=(n/10)%10; // 4

    c=n%10; // 5

    printf("sum of digit is : %d",a+b+c);

    return 0;

}

**Output**

Enter 3 digit Number345

sum of digit is : 12

**6.** Write a program which takes a character as an input and displays its ASCII code

**Code**

#include<stdio.h>

int main() {

    char c;

    printf("Enter a Character:");

    scanf("%c",&c);

    printf("ASCII CODE of Character:%d,",c);

    return 0;

}

**Output**

**Enter a Character:A**

**ASCII CODE of Character:65,**

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

**Code**

#include<stdio.h>

int main() {

    int n;

    printf("Enter a Number :");

    scanf("%d",&n );

    if((n&1)==1)

    printf("Number is set");

    else

    printf("Number is not");

    return 0;

}

**Output**

**Enter a Number :3**

**Number is set**

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

**Code**

#include<stdio.h>

int main() {

    int n;

    printf("Enter a Number :");

    scanf("%d",&n );

    if((n&1)==0)

    printf("Number is Even");

    else

    printf("Number is odd");

    return 0;

}

**Output**

Enter a Number :4

Number is Even

**9. Write a program to print size of an int, a float, a char and a double type variable.**

**Code**

#include<stdio.h>

int main() {

    int c;

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

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

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

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

     return 0;

}

**Output**

Size of int : 4 bytes

Size of float : 4 bytes

Size of char : 1 bytes

Size of double : 8 bytes

**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)**

**Code**

#include<stdio.h>

int main() {

    int n,a,b,c,d;

    printf("Enter a Number :");

    scanf("%d",&n );

    d=n%10; // 5

    printf("REQUIRED NUMBER : %d", n-d);

    return 0;

}

**Output**

Enter a Number :34434

REQUIRED NUMBER : 34430

**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)**

**Code**

#include<stdio.h>

int main() {

    int n,q,a,b,c,d;

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

    scanf("%d",&n );

    printf("Enter a digit :");

    scanf("%d",&q);

    a=n/100; //  3

    b=(n/10)%10; // 4

    c=n%10; // 5

    d=a\*1000+b\*100+c\*10+q;

    printf("sum of digit is : %d",d);

    return 0;

}

**Output**

Enter a 3 digit Number :234

Enter a digit :9

sum of digit 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.**

**Code**

#include<stdio.h>

int main() {

    float n=0,U=0;

    printf("Enter INR price :");

    scanf("%f",&n );

    U= n\*0.01311819494;

    printf("USD price is : %.2f",U);

    return 0;

}

**Output**

**Enter INR price :23**

**USD price is : 0.30**

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

**Code**

#include<stdio.h>

int main() {

    int n,a,b,c,d;

    printf("Enter 3 digit Number");

    scanf("%d",&n );

    a=n/100; //  3

    b=(n/10)%10; // 4

    c=n%10; // 5

    d=b\*100+c\*10+a;

    printf("sum of digit is : %d",d);

    return 0;

}

**Output**

Enter 3 digit Number345

sum of digit is : 453

**DONE**