Assignment – 2

Operators in C Language

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

Solve—

#include<stdio.h>

int main()

{

int num1,num2;

printf(" enter number");

scanf("%d\n",&num1);

num2= num1%10;

printf(" the unit digit of %d is %d",num1,num2);

return 0;

}

Ouput –

enter number123

the unit digit of 123 is 3

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

Solve-

#include<stdio.h>

int main()

{

int num1,num2;

printf(" enter number");

scanf("%d\n",&num1);

num2= num1/10;

printf(" the unit digit of %d is %d",num1,num2);

return 0;

}

Output-

enter number123

the unit digit of 123 is 12

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

#include<stdio.h>

int main()

{

int num1,num2;

printf("enter the number");

scanf("%d%d",&num1,&num2);

int temp= num1;

num1 = num2;

num2= temp;

printf("num1 =%d and num2= %d",num1,num2);

return 0;

}

Output –

enter the number12

32

num1 =32 and num2= 12

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

Solve-

#include<stdio.h>

int main()

{

int num1,num2;

printf("enter number");

scanf("%d%d",&num1,&num2);

num1= num1+num2;

num2= num1-num2;

num1= num1- num2;

printf(" num1= %d and num2= %d",num1,num2);

return 0;

}

Ouput-

enter number12

32

num1= 32 and num2= 12

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

Solve –

#include<stdio.h>

int main()

{

int n,sum=0,m;

printf("Enter a number:");

scanf("%d",&n);

while(n>0)

{

m=n%10;

sum=sum+m;

n=n/10;

}

printf("Sum is=%d",sum);

return 0;

}

Ouput-

Enter a number:123

Sum is=6

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

Solve-

#include<stdio.h>

int main()

{

char a;

printf("Enter the charactors ");

scanf("%c\n",&a);

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

return 0;

}

Output –

Enter the characters a

The ASCII code is 97

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

operator.

Solve –

#include<stdio.h>

int main()

{

int num;

printf("enter the number");

scanf("%d\n",&num);

if(num%2==0){

printf("even");

}

else

{

printf("odd");

}

return 0;

}

Output –

enter the number21

odd

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

Solve –

#include <stdio.h>

int main(){

int a;

float b;

char c;

double d;

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

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

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

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

return 0;

}

Output –

Size of int: 4 bytes

Size of float: 4 bytes

Size of char: 1 bytes

Size of double: 8 bytes

9. 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)

Solve-

#include<stdio.h>

int main()

{

int num1,num2;

printf("enter the number ");

scanf("%d\n",&num1);

num2= num1/10\*1000/100;

printf(" the unit %d is %d",num1,num2);

return 0;

}

Output –

enter the number 1234

the unit 1234 is 1230

10. 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)

solve –

#include<stdio.h>

int main(){

int n1, n2,n3;

printf("Enter the number");

scanf("%d%d",&n1,&n2);

n3= (n1+10)+n2;

printf(" the unit of given no is %d and %d = %d ",n1,n2,n3);

return 0;

}

Output –

Enter the number123

1

the unit of given no is 123 and 1 = 134

11. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and

convert it into USD.

Solve – #include<stdio.h>

int main()

{

int INR,USD;

printf("Enter the ammount of INR");

scanf("%d\n",&INR);

USD = INR/76.23;

printf("The ammont of USD is %d ",USD,INR);

return 0;

}

Ouput –

Enter the ammount of INR160

The ammont of USD is 2

12. Write a program to take a three-digit number from the user and rotate its digits by

one position towards the right.

Solve –

#include<stdio.h>

int main(){

int x,a,b,c;

printf(" enter the value");

scanf("%d\n",&x);

a=x/10;

b=x%10;

c=(b\*100)+a;

printf("%d",c);

return 0;

}

Output -- enter the value123

312