**Operators in C Language**

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

#include<stdio.h>

int main ()

{

int x,y;

printf(“Enter a number:”);

scanf(“%d”,&x);

y=x%10;

printf(“unit digit of %d is %d”,x,y);

return 0;

}

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

#include<stdio.h>

int main ()

{

int a,b;

printf(“enter a number:”);

scanf(“%d”,&a);

b=a/10;

printf(“%d”,b);

return 0;

}

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

#include<stdio.h>

int main ()

{

int x,y,z;

printf(“Enter two numbers:”);

scanf(“%d%d”,&x,&y);

printf(“before swaping x=%d and y=%d”,x,y);

z=y;

y=x;

x=z;

printf (“after swaping x=%d and y=%d”,x,y);

return 0;

}

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

#include<stdio.h>

int main ()

{

int x,y;

printf(“enter two numbers:”);

scanf(“%d%d”,&x,&y);

printf(“before swaping x=%d and y=%d\n”,x,y);

y=y-x;

x=x+y;

y=x-y;

printf(“after swaping x=%d and y=%d”,x,y);

return 0;

}

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

#include<stdio.h>

int main ()

{

char c1;

int x;

printf(“enter a character :”);

scanf(“%c”,&c1);

x=c1;

printf(“ASCII code of character %c is %d”,c1,x);

return 0;

}

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

#include<stdio.h>

int main ()

{

int count=1,n;

printf(“enter a number:”);

scanf(“%d”,&n);

while((n&1)==0)

{

n=n>>1;

count++;

}

printf(“%d position of first 1:”,count);

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 n;

printf(“enter a number:”);

scanf(“%d”,&n);

if(n&1)

printf(“%d is odd number:”,n);

else

printf(“%d is even number:”,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 a; char ch; float f; double d;

printf(“Size of int is %d\n”,sizeof(a));

printf(“Size of char is %d\n”,sizeof(ch));

printf(“Size of float is %d\n”,sizeof(f));

printf(“Size of double is %d”,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,n;

printf(“enter a number:”);

scanf(“%d”,&x);

n=x/10;

n=n\*10;

printf(“x=%d then made x=%d”,x,n);

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 n,d;

printf (“enter a number:”);

scanf(“%d”,&n);

printf (“enter a digit:”);

scanf(“%d”,&d);

n=n\*10+d;

printf (“result=%d”,n);

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 ()

{

double USD,INR;

char ch='$’;

printf(“Enter INR=”);

scanf(“%lf”,&INR);

USD=INR/76.23;

printf(“Conversion INR TO USD=%lf%c”,USD,ch);

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,rem,p=100,sum=0;

int q,num;

printf("Enter a number:");

scanf("%d",&n);

num=n;

rem=n%10; // 532%10=2

q=rem\*p; // q=2\*100=200

sum=sum+q;

n=n/10;

p=p/10;

rem=n%10; // 53%10=3

q=rem\*p; // q=3\*10=30

sum=sum+q;

n=n/10;

p=p/10;

rem=n%10; // 5%10=5

q=rem\*p; //q=5\*1=5

sum=sum+q;

n=n/10;

p=p/10;

printf("%d rotated toward the right ans=%d",num,sum);

return 0;

}