**Assignment - 2** **A Job Ready Bootcamp in C++, DSA and IOT**  **MySirG**

**Operators in C Language**

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

#include<stdio.h>

int main()

{

int x,z;

printf("Please enter a number:");

scanf("%d",&x);

z = x%10;

printf(" The unit digit number %d is : %d",x,z);

}

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

#include<stdio.h>

int main()

{

int x,z;

printf("Please enter a number:");

scanf("%d",&x);

z = x/10;

printf(" The number %d without it's last digit : %d",x,z);

return 0;

}

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

#include<stdio.h>

int main()

{

int a = 10,b = 20,t;

printf("before swapping a = %d , b = %d\n",a,b);

t = a;

a = b;

b = t;

printf("after swapping a = %d , b = %d",a,b);

return 0;

}

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

#include<stdio.h>

int main()

{

int x = 10, y = 20;

printf("Before swapping x = %d and y = %d \n",x,y);

x = x + y;

y = x - y;

x = x - y;

printf("After swapping x = %d and y = %d \n",x,y);

return 0;

}

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

#include<stdio.h>

int main()

{

int num,sum,x,y,z,a,b,c;

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

scanf("%d",&num);

x = num/10;

y = x/10;

z = y/10;

a = num%10;

b = x%10;

c = y%10;

sum = a + b + c;

//printf("Entered number = %d",num);

printf("Sum of entered three number %d is : %d",num,sum);

return 0;

}

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

#include<stdio.h>

int main()

{

int ch;

printf("Enter a Character : ");

scanf("%c",&ch);

printf("The ASCII value of entered character \'%c\' is : %d",ch,ch);

return 0;

}

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

#include<stdio.h>

int main()

{

int num,count = 0, res;

printf("Enter a number : ");

scanf("%d",&num);

while(num>0){

res = num&1;

count++;

if(res == 1)

{

printf("the position of first '1's in LSB is : %d",count);

break;

}

num = num>>1;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int num;

printf("Enter a number : ");

scanf("%d",&num);

if(num&1==1)

printf("%d is an odd number",num);

else

printf("%d is an even number",num);

return 0;

}

1. 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 lf;

printf("The of size of variable x INT type is : %d ",sizeof(x));

printf("\nThe of size of variable c CHAR type is : %d",sizeof(c));

printf("\nThe of size of variable f FLOAT type is : %d",sizeof(f));

printf("\nThe of size of variable lf DOUBLE type is : %d",sizeof(lf));

return 0;

}

1. 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 num,res;

printf("Enter a number : "); //2345 = 2340

scanf("%d",&num);

num = num / 10;

res = num \* 10;

printf("The result is : % d",res);

return 0;

}

1. 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 num,n,res;

printf("Enter a number : ");

scanf("%d",&num);

printf("Enter a digit : ");

scanf("%d",&n);

res = num \* 10 + n;

printf("The result is : % d",res);

return 0;

}

1. 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 inr,usd;

printf("Please enter the amount in INR : ");

scanf("%f",&inr);

usd = inr/76.23;

printf("The amount of INR %f is : %f in USD" ,inr,usd);

return 0;

}

1. 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 num,res;

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

scanf("%d",&num);

res = (num%10)\*100+num/10;

printf("the value of %d after rotating its digit by 1 position towards the right: %d",num,res);

return 0;

}