**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 n;

printf("Enter a number: ");

scanf("%d",&n);

printf("Unit digit of %d is %d",n,n%10);

printf("\n");

return 0;

}

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

#include<stdio.h>

int main()

{

int n;

printf("Enter a number: ");

scanf("%d",&n);

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

printf("\n");

return 0;

}

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

#include<stdio.h>

int main()

{

int a,b,c;

printf("Enter two number a and b: ");

scanf("%d %d",&a,&b);

c=a;

a=b;

b=c;

printf("After swapping value of a=%d B=%d",a,b);

printf("\n");

return 0;

}

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

#include<stdio.h>

int main()

{

int a,b;

printf("Enter two number a and b: ");

scanf("%d %d",&a,&b);

a=a+b; //a=a\*b;

b=a-b; //b=a/b;

a=a-b; //a=a/b;

printf("After swapping value of a=%d B=%d",a,b);

printf("\n");

return 0;

}

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

#include<stdio.h>

int main()

{

int n,rem,sum=0;

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

scanf("%d",&n);

rem=n%10;

sum=sum+rem;

n=n/10;

rem=n%10;

sum=sum+rem;

n=n/10;

rem=n%10;

sum=sum+rem;

n=n/10;

printf("Sum of digit= %d",sum);

printf("\n");

return 0;

}

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

#include<stdio.h>

int main()

{

char ch;

printf("Enter a character: ");

scanf("%c",&ch);

printf("ASCII Code= %d",ch);

printf("\n");

return 0;

}

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

#include<stdio.h>

int main()

{

int x,result=0,count=0;

printf("Enter a number: ");

scanf("%d",&x);

while(x!=0)

{

result=x&1;

count++;

if(result==1)

{

printf("%d",count);

break;

}

x=x>>1;

}

printf("\n");

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,result=0;

printf("Enter a number: ");

scanf("%d",&n);

result=n&1;

if(result==1)

{

printf("Odd");

}

else{

printf("Even");

}

printf("\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;

float b;

char c;

double d;

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

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

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

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

printf("\n");

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,temp=0;

printf("Enter a number: ");

scanf("%d",&x);

temp=x/10;

x=temp\*10;

printf("%d",x);

printf("\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 x,digit,result=0;

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

scanf("%d %d",&x,&digit);

result=x\*10+digit;

printf("Resulting number is %d",result);

printf("\n");

return 0;

}

12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR andconvert it into USD.

#include<stdio.h>

int main()

{

float amount,inr=76.23,usd;//current value of 1$=79.855 Rs

printf("Enter amount: ");

scanf("%f",&amount);

usd=amount/inr;

printf("INR %f convert into %.3f USD",amount,usd);

printf("\n");

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,temp=0;

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

scanf("%d",&n);

rem=n%10;

temp=n/10;

n=rem\*100+temp;

printf("%d",n);

printf("\n");

return 0;

}