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

ANS;-1

#include<stdio.h>

int main()

{

int x;

printf("Enter a number ");

scanf("%d",&x);

printf(" unit digit of number %d is %d" ,x ,x%10);

return 0;

}

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

ANS :- 2

#include<stdio.h>

int main()

{

int x;

printf("Enter a number ");

scanf("%d",&x);

printf(" The number without last digit %d is %d", x , x/10);

return 0;

}

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

ANS:-3

#include<stdio.h>

int main ()

{

int a,b,c;

printf("Enter a two number ");

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

c=a;

a=b;

b=c;

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

return 0;

}

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

ANS :-4

#include<stdio.h>

int main ()

{

int a,b;

printf("Enter a two number ");

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

b=b-a;

a=a+b;

b=a-b;

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

return 0;

}

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

#include<stdio.h>

int main()

{

int x;

printf("Enter a Three Digit number ",x);

scanf("%d",&x);

int rem = 0, sum =0;

rem = x%10;

x = x/10;

sum = sum + rem;

rem = x%10;

x = x/10;

sum = sum + rem;

rem = x%10;

x = x/10;

sum = sum + rem;

printf(" %d",sum);

return 0;

}

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

ANS :-6

#include<stdio.h>

int main()

{

char a = 'A';

printf("%d",a);

return 0;

}

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

Ans 7 :- #include <stdio.h>

int main()

{

int num;

printf("Enter any number: ");

scanf("%d", &num);

if(num & 1)

printf("LSB of %d is 1 ", num);//lsb-least significant bit

else

printf("LSB of %d is 0 ", num);

return 0;

}

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

operator.

ANS :-8

#include<stdio.h>

int main()

{

int x ,result;

printf("Enter a number to find even and odd ");

scanf("%d",&x);

result = x&1;

if(result == 1)

{

printf("the given number is odd Num ",x);

("%d",result);

}

else

{

printf("the given number is even Num",x);

}

return 0;

}

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

ANS :-9

#include <stdio.h>

int main()

{

printf("Sizeof int is: %d\n", sizeof(int)); //4

printf("Sizeof float is: %d\n", sizeof(float)); // 4

printf("Size of char is: %d\n", sizeof(char)); //1

printf("Size of double is: %d\n", sizeof(double)); //8

return 0;

}

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10. Write a program to make the last digit of a number stored in a variable as zero.

ANS:-10

#include <stdio.h>

int main()

{

int num;

printf("Enter a number: ");

scanf("%d", &num);

int newNumber = (num/10) \* 10;

printf("New number is: %d",newNumber);

return 0;

}

(Example - if x=2345 then make it x=2340)

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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)

ANS:-11

#include<stdio.h>

int main()

{

int x;

printf("Enter A Number ");

scanf("%d",&x);

int y ;

printf("Enter A Digit ");

scanf("%d",&y);

printf("resulting number is %d%d",x,y);

return 0;

}

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

convert it into USD.

ANS:-12

#include<stdio.h>

int main()

{

float Rupees;

printf("Enter A Amount in INR:");

scanf("%f",&Rupees);

float usd = Rupees / 76.23;

printf("The Amount In Dollar Is %f ",usd);

return 0;

}

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

one position towards the right.

ANS:-13

#include <stdio.h>

int main()

{

int num;

printf("Enter a number: ");

scanf("%d", &num);

int rem = num % 10;

if (rem == 0)

{

printf("one position towards the right ans: ");

rem = rem \* 100 + num / 10;

printf("one position towards the right ans: 0%d", rem);

}

else

{

rem = rem \* 100 + num / 10;

printf("one position towards the right ans: %d", rem);

}

return 0;

}

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