Assignment - 1 A Job Ready Bootcamp in C++, DSA and IOT

Input and output in C Language

Name: Tushar Maliye Date:10/12/2022

User id: [tusharmaliye59@gmail.com](mailto:tusharmaliye59@gmail.com)

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

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

int unit\_digit;

unit\_digit=n%10;

printf("The unit digit is %d",unit\_digit);

}

Output:

Enter the number:253

The unit digit is 3

--------------------------------

Process exited after 2.449 seconds with return value 0

Press any key to continue . . .

Output 2:

Enter the number: 50

The unit digit is 0

--------------------------------

Process exited after 4.878 seconds with return value 0

Press any key to continue . . .

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

Program:

#include<stdio.h>

int main()

{

int n;

printf("Enter the number:");

scanf("%d",&n);

n=n/10;

printf("The number without last digit is %d",n);

}

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Output:

Enter the number: 253

The number without last digit is 25

--------------------------------

Process exited after 5.489 seconds with return value 0

Press any key to continue . . .

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

Program:

#include<stdio.h>

int main()

{

int a,b,temp;

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

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

temp=a;

a=b;

b=temp;

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

}

Output:

Enter the two number for variable a and b::5 6

The number after swapping are a = 6 , b = 5

--------------------------------

Process exited after 5.154 seconds with return value 0

Press any key to continue . . .

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

Program:

#include<stdio.h>

int main()

{

int a,b,c,sum;

printf("Enter the three number:");

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

sum=a+b+c;

printf("The sum of the number is %d",sum);

return 0;

}

Output:

Enter the three numbers :10 20 30

The sum of the numbers is 60

--------------------------------

Process exited after 5.335 seconds with return value 0

Press any key to continue . . .

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

Program:

#include<stdio.h>

int main()

{

char a;

printf("Enter a character:");

scanf("%c",&a);

printf("The ASCII value of %c is %d",a,a);

}

Output:

Enter a character:a

The ASCII value of a is 97

--------------------------------

Process exited after 2.594 seconds with return value 0

Press any key to continue . . .

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

operator.

Program:

#include<stdio.h>

int main()

{

int n;

printf("Enter a number:");

scanf("%d",&n);

if(n & 1)

printf("the number is odd.");

else

printf("the number is even.");

printf("\n");

return 0;

}

Output

Enter a number: 22

the number is even.

--------------------------------

Process exited after 4.732 seconds with return value 0

Press any key to continue . . .

Output 2:

Enter a number: 13

the number is odd.

--------------------------------

Process exited after 2.996 seconds with return value 0

Press any key to continue . . .

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

Program:

#include<stdio.h>

int main()

{

printf("\nThe size of the int is %d",sizeof(int));

printf("\nThe size of the char is %d",sizeof(char));

printf("\nThe size of the floatis %d",sizeof(float));

printf("\nThe size of the double is %d",sizeof(double));

return 0;

}

Output:

The size of the int is 4

The size of the char is 1

The size of the floatis 4

The size of the double is 8

--------------------------------

Process exited after 0.02355 seconds with return value 0

Press any key to continue . . .

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)

program:

#include<stdio.h>

int main()

{

int num, a;

printf("Enter the number:");

scanf("%d",&num);

a=num%10;

num=num-a;

printf("After replacing the last digit as zere :%d",num);

return 0;

}

----------------------------------

Output:

Enter the number:1245

After replacing the last digit as zere :1240

--------------------------------

Process exited after 2.104 seconds with return value 0

Press any key to continue . . .

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)

program:

#include<stdio.h>

int main()

{

int num, a;

printf("Enter the number:");

scanf("%d",&num);

printf("enter a digit:");

scanf("%d",&a);

num=num\*10+a;

printf("%d",num);

return 0;

}

Output:

Enter the number: 125

enter a digit: 9

1259

--------------------------------

Process exited after 9.619 seconds with return value 0

Press any key to continue . . .

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

convert it into USD.

Program:

#include<stdio.h>

int main()

{

int INR,USD;

printf("Enter the indian Rupees:");

scanf("%d",&INR);

USD=INR\*76.23;

printf("the INR %d is equal to %d USD",INR,USD);

return 0;

}

----------------------------------------------

Output:

Enter the indian Rupees: 1000

the INR 1000 is equal to 76230 USD

--------------------------------

Process exited after 3.5 seconds with return value 0

Press any key to continue . . .

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

one position towards the right.

Program:

#include<stdio.h>

int main()

{

int num;

printf("Input\nEnter a number:");

scanf("%d",&num);

int last\_digit=num%10;

num=num/10;

printf("output\n%d%d",last\_digit,num);

return 0;

}

---------------------------------

Output:

Input

Enter a number: 254

output

425

--------------------------------

Process exited after 5.399 seconds with return value 0

Press any key to continue . . .