CPP Programs

1. Print Hello World.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-18 23:55:15*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*cout* *<<* "Hello World!" *<<* *endl*;

*getch*();

*return* 0;

}

2. Welcome Text.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:00:32*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

    string *name*;

*cout* *<<* "\nEnter your name: ";

*cin* *>>* *name*;

*cout* *<<* "\nWelcome to the world of CPP, Mister " *<<* *name* *<<* "." *<<* *endl*;

*getch*();

*return* 0;

}

3. CS is a Cool Stuff!

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:12:08*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*cout* *<<* "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

*cout* *<<* "\n";

*cout* *<<* "           C C C             S S S S        !!\n";

*cout* *<<* "         C       C         S         S      !!\n";

*cout* *<<* "        C                 S                 !!\n";

*cout* *<<* "       C                   S                !!\n";

*cout* *<<* "       C                    S S S S         !!\n";

*cout* *<<* "       C                             S      !!\n";

*cout* *<<* "        C                             S     !!\n";

*cout* *<<* "         C       C         S         S\n";

*cout* *<<* "           C C C             S S S S        OO\n";

*cout* *<<* "\n";

*cout* *<<* "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

*cout* *<<* "\n";

*cout* *<<* "       Computer Science is Cool Stuff!!!\n";

*getch*();

*return* 0;

}

4. Happy Birthday.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:23:55*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

    string *name*;

*cout* *<<* "Enter your name: ";

*cin* *>>* *name*;

*cout* *<<* "♪ღ♪\*•.¸¸.•\*¨¨\*•.♪ღ♪\*•.¸¸.•\*¨¨\*•.♪ღ♪" *<<* *endl*;

*cout* *<<* "  ░H░A░P░P░Y░♪░B░I░R░T░H░D░A░Y░" *<<* *endl*;

*cout* *<<* "♪ღ♪\*•.¸¸.•\*¨¨\*•.♪ღ♪\*•.¸¸.•\*¨¨\*•.♪ღ♪" *<<* *endl*;

*cout* *<<* "\t" *<<* *name* *<<* *endl*;

*getch*();

*return* 0;

}

5. Addition.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:25:07*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*double* *num1*, *num2*;

*cout* *<<* "Enter the number 1 : ";

*cin* *>>* *num1*;

*cout* *<<* "\nEnter the number 2 : ";

*cin* *>>* *num2*;

*cout* *<<* "\nThe sum is " *<<* *num1* *+* *num2*;

*getch*();

*return* 0;

}

6. Subtraction.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:26:57*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*double* *num1*, *num2*;

*cout* *<<* "Enter the number 1 : ";

*cin* *>>* *num1*;

*cout* *<<* "\nEnter the number 2 : ";

*cin* *>>* *num2*;

*cout* *<<* "\nThe subtraction is " *<<* *num1* *-* *num2*;

*getch*();

*return* 0;

}

7. Multiplication.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:27:57*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*double* *num1*, *num2*;

*cout* *<<* "Enter the number 1 : ";

*cin* *>>* *num1*;

*cout* *<<* "\nEnter the number 2 : ";

*cin* *>>* *num2*;

*cout* *<<* "\nThe product is " *<<* *num1* *\** *num2*;

*getch*();

*return* 0;

}

8. Division.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 00:31:08*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*double* *num1*, *num2*;

*cout* *<<* "Enter the number 1 : ";

*cin* *>>* *num1*;

*cout* *<<* "\nEnter the number 2 : ";

*cin* *>>* *num2*;

*cout* *<<* "\nThe product is " *<<* *num1* */* *num2*;

*getch*();

*return* 0;

}

9. Even or Odd.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 01:15:15*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*int* *number*;

*cout* *<<* "Enter a number: ";

*cin* *>>* *number*;

*if* (*number* *%* 2 *==* 0)

    {

*cout* *<<* *number* *<<* " is Even." *<<* *endl*;

    }

*else*

    {

*cout* *<<* *number* *<<* " is Odd." *<<* *endl*;

    }

*getch*();

*return* 0;

}

10. Number of Digits.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-19 01:23:18*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*int* *number*;

*cout* *<<* "Enter a number: ";

*cin* *>>* *number*;

*cout* *<<* *number* *<<* " is a " *<<* (*int*)(*log10*(*number*) *+* 1) *<<* " digit number." *<<* *endl*;

*getch*();

*return* 0;

}

11. Quotient and Remainder.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-08-26 00:30:38*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*int* *dividend*, *divisor*;

*cout* *<<* "Enter the dividend: ";

*cin* *>>* *dividend*;

*cout* *<<* "Enter the divisor: ";

*cin* *>>* *divisor*;

*cout* *<<* "Quotient: " *<<* *dividend* */* *divisor* *<<* *endl*;

*cout* *<<* "Remainder: " *<<* *dividend* *%* *divisor* *<<* *endl*;

*getch*();

*return* 0;

}

12. Area of a Circle.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-09-01 23:52:16*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*double* *radius*;

*cout* *<<* "Enter the radius of the circle: ";

*cin* *>>* *radius*;

*double* *area* *=* (3.1415926535897932384626433832795) *\** (*radius*) *\** (*radius*);

*cout* *<<* "\nArea of the Circle: " *<<* *area* *<<* *endl*;

*getch*();

*return* 0;

}

13. Leap Year.

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-09-17 00:04:07*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*int* *year*;

*cout* *<<* "Enter the Year: ";

*cin* *>>* *year*;

*if* (*year* *%* 4 *==* 0)

    {

*if* (*year* *%* 100 *==* 0)

        {

*if* (*year* *%* 400 *==* 0)

            {

*cout* *<<* "\nLeap Year" *<<* *endl*;

            }

*else*

            {

*cout* *<<* "\nNon Leap Year" *<<* *endl*;

            }

        }

*else*

        {

*cout* *<<* "\nLeap Year" *<<* *endl*;

        }

    }

*else*

    {

*cout* *<<* "\nNon Leap Year" *<<* *endl*;

    }

*getch*();

*return* 0;

}

14. Naturals in Range

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-10-14 00:07:25*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*int* *lb*, *ub*;

*cout* *<<* "Enter the lower - bound: ";

*cin* *>>* *lb*;

*cout* *<<* "\nEnter the upper - bound: ";

*cin* *>>* *ub*;

*for* (*int* *i* *=* *lb*; *i* *<=* *ub*; *i++*)

    {

*cout* *<<* *i* *<<* *endl*;

    }

*getch*();

*return* 0;

}

15. Evens in Range

*/\**

*AUTHOR: BlueKnight*

*CREATED: 2021-10-14 00:09:32*

*\*/*

*#include* <bits/stdc++.h>

*#include* <conio.h>

*using* *namespace* std;

*int* *main*()

{

*int* *lb*, *ub*;

*cout* *<<* "Enter the lower - bound: ";

*cin* *>>* *lb*;

*cout* *<<* "\nEnter the upper - bound: ";

*cin* *>>* *ub*;

*for* (*int* *i* *=* *lb*; *i* *<=* *ub*; *i++*)

    {

*if* (*i* *%* 2 *==* 0)

        {

*cout* *<<* *i* *<<* *endl*;

        }

    }

*getch*();

*return* 0;

}