Lab 6

Evelyn Luo

Code

Programiz C Online Compiler

main.c

Share Run

```c
// created by Evelyn Luo
// Lab 6
// october 18th, 20204

#include <stdio.h>
#include <stdlib.h>


int main()
{

    int x, y;
    int multiTable[13][13];
    int found = 0;
    int value = 0;
    int userInput;
    char retry;

    do
    {
        printf("\n\nThis program will determine wether the number is prime or
            not. Please  enter a number between 1 to 144: ");
        scanf(" %d", &userInput);


        for (x = 0; x <= 12; x++)
```

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```
25      for (x = 0; x <= 12; x++)
26      {
27          for (y = 0; y <= 12; y++)
28          {
29              multiTable[x][y] = x * y;
30              if (multiTable[x][y] == userInput)
31              {
32                  if (userInput != 2)
33                  {
34                      if (userInput % 2 == 0)
35                      {
36                          if (x != 1 && y != 1)
37                          {
38
39                              printf("\n\nYour number is not a prime number"
                                    );
40                              printf("\n\nThe multiplication %d * %d = %d", x
                                    , y, multiTable[x][y]);
41                          }
42                      }
43
44                      else
45                      {
46                          printf("\n\nYour number is a prime number");
47                      }
48
```

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            }

            if (userInput == 2)
            {
                printf("\n\nYour number is a prime number");
            }

        }

    }
    }


    printf("\n\nWould you like to enter another number? ");
    scanf(" %c", &retry);

} while (retry == 'y' || retry == 'Y');

if (retry == 'n' || retry == 'N')
{
    printf("\n\nThank you for using this program.");
}

}
```

Output

Programiz C Online Compiler

Programiz PRO >

main.c

Run

```c
// created by Evelyn Luo
// Lab 6
// october 18th, 20204

#include <stdio.h>
#include <stdlib.h>


int main()
{

    int x, y;
    int multiTable[13][13];
    int found = 0;
    int value = 0;
    int userInput;
    char retry;

    do
    {
        printf("\n\nThis program will determine wether the number is prime or not. Please  enter a number between 1 to 144: ");
        scanf(" %d", &userInput);


        for (x = 0; x <= 12; x++)
        {
            for (y = 0; y <= 12; y++)
            {
                multiTable[x][y] = x * y;
                if (multiTable[x][y] == userInput)
                {
                    if (userInput != 2)
                    {
                        if (userInput % 2 == 0)
                        {
                            if (x != 1 && y != 1)
                            {

                                printf("\n\nYour number is not a prime number");
                                printf("\n\nThe multiplication %d * %d = %d", x, y, multiTable[x][y]);
                            }
                        }

                        else
```

Output

Clear

```
/tmp/G3Uy8nwLjQ.o


This program will determine wether the number is prime or not. Please  enter a number between 1 to 144: 4


Your number is not a prime number

The multiplication 2 * 2 = 4

Would you like to enter another number? y


This program will determine wether the number is prime or not. Please  enter a number between 1 to 144: 2


Your number is a prime number

Your number is a prime number

Would you like to enter another number? n


Thank you for using this program.

=== Code Execution Successful ===
```