Week- 3 - 01:

--Coding-C-Language Features-Optional.

ROLL NO.:240801030

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Q1) Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false.

Example: If 698 and 768 are given, program should print true as they both end with 8.

Sample Input 1

25 53

Sample Output 1

false

Sample Input 2

27 77

Sample Output 2

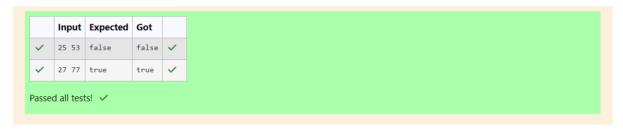
true

CODE:

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 28 October 2024, 9:55 AM
Duration	56 days 7 hours

```
#include <stdio.h>
 3 v int main(){
        int num1 , num2;
 4
        scanf("%d %d",&num1,&num2);
 5
 6
        int lastDigit1 = num1%10;
 7
        int lastdigit2 = num2%10;
        if(lastDigit1 == lastdigit2){
 8 .
            printf("true\n");
 9
        }
10
        else{
11 *
           printf("false\n");
12
13
14
        return 0;
15 }
```

OUTPUT:



Q2) In this challenge, we're getting started with conditional statements.	
Task	
Given an integer, n, perform the following conditional actions:	
• If n is odd, print Weird	
• If n is even and in the inclusive range of 2 to 5, print Not Weird	
• If n is even and in the inclusive range of 6 to 20, print Weird	
• If n is even and greater than 20, print Not Weird	
Complete the stub code provided in your editor to print whether or not n is wei	r d .
Input Format	
A single line containing a positive integer, n.	
Constraints	

Print Weird if the number is weird; otherwise, print Not Weird.

• 1 < n < 100

Output Format

Sample Input 0

3

Sample Output 0

Weird

CODE:

```
#include <stdio.h>
1
 2
 3 * int main(){
 4
        int n;
        scanf("%d",&n);
 5
 6 *
        if(n%2!=0){
            printf("Weird\n");
 7
 8
        }else{
 9 *
10 *
            if(n>=2&&n<=5){
            printf("Not Weird\n");
11
            }else if (n>=66&&n<=20){
12 *
13
            printf("Weird\n");
        }else if (n>20){
14 *
            printf("Not Weird\n");
15
16
17
18
        return 0;
   }
19
```

OUTPUT:

	Input	Expected	Got		
~	3	Weird	Weird	~	
~	24	Not Weird	Not Weird	~	
Passed all tests! 🗸					

Q3) Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.

For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

Sample Input 1

3

5

4

Sample Output 1

Yes

CODE:

```
#include <stdio.h>
 2
   int main(){
 3 ,
        int a,b,c;
 4
        scanf("%d %d %d",&a,&b,&c);
 5
        if((a*a+b*b==c*c)||(a*a+c*c==b*b)||(b*b+c==a*a)){}
 6 •
            printf("yes\n");
 7
 8 *
        }else{
           printf("no\n");
9
10
11
        return 0;
12
13
14
     }
```

OUTPUT:

