Week-03-Decision Making and Branching - if, if...else and nested if...else, if...else if and switch...case

Week-03-01-Practice Session Coding
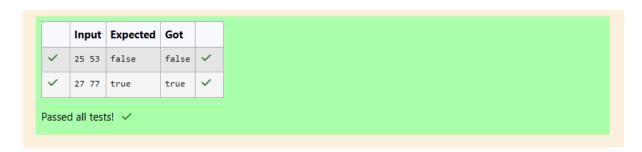
Question **1**	Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false. Example: If 698 and 768 are given, program should print true as they both end with 8. Sample Input 1 25 53 Sample Output 1 false Sample Input 2 27 77 Sample Output 2 true
Correct	
Marked out of 3.00	

Source Code

Answer: (penalty regime: 0 %)

```
1  #include <stdio.h>
2  int main()
3  {
4      int x,y,one,two;
5      scanf("%d %d",&x,&y);
6      one = x % 10;
7      two = y % 10;
8      if(one == two)
9      {
10          printf("true");
11     }
12     else
13     {
14          printf("false");
15     }
16     return 0;
17 }
```

Result

	Input	Expected	Got	
✓	25 53	false	false	✓
✓	27 77	true	true	✓

Passed all tests! ✓

Objective

In this challenge, we're getting started with conditional statements.

Task

Given an integer, **n**, perform the following conditional actions:

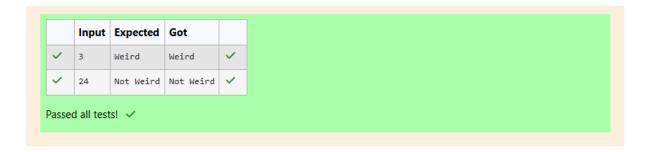· 	If **n** is odd, print Weird

· 	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 weird.

Source Code

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if(n % 2 == 0)
    {
        if(n>=2 && n<=6)
        {
            printf("Not Weird");
        }
        else if(n>=6 && n<=20)
        {
            printf("Weird");
        }
        else
        {
            printf("Not Weird");
        }
    }

    else
    {
        printf("Weird");
    }
    return 0;
}
```

Result

	Input	Expected	Got	
✓	3	Weird	Weird	✓
✓	24	Not Weird	Not Weird	✓

Passed all tests! ✓

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*5 You 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 Sample Input 2 5 8 2 Sample Output 2 no

Source Code

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main()
{
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if((a*a)+(b*b) == (c*c))
    {
        printf("yes");
    }
    else if((a*a)+(c*c) == (b*b))
    {
        printf("yes");
    }
    else if((b*b)+(c*c) == (a*a))
    {
        printf("no");
    }
    else
    {
        printf("no");
    }
    return 0;
}
```

Result

	Input	Expected	Got	
✓	3 5 4	yes	yes	✓
✓	5 8 2	no	no	✓

Passed all tests! ✓