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

Week-03-01-Practice Session-Coding

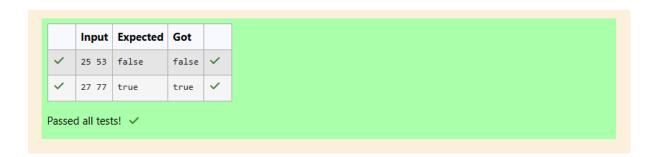
Question 1 Correct Marked out of 3.00

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

Source Code

```
Answer: (penalty regime: 0 %)
    #include<stdio.h>
     int main()
 3 v {
 4
         int a,b;
         scanf("%d %d\n",&a,&b);
 5
         if(a%10==b%10)
         printf("true");
 8
         printf("false");
 9
 10
         return 0;
 11
```

Result



Question **2** Correct Marked out of 5.00 Flag question

Objective

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

Task

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

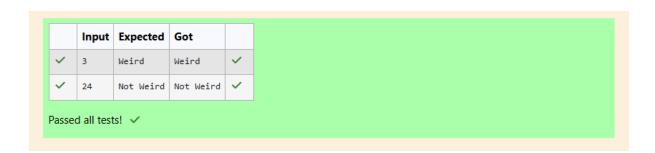
- If *n* is odd, print Weird
- If *n* is even and in the inclusive range of 2 to 5, print *Not Weird*
- If n is even and in the inclusive range of 6 to 20, print Weird
- If *n* is even and greater than 20, print Not Weird

Complete the stub code provided in your editor to print whether or not n is weird.

Source Code

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

Result



Question $\bf 3$ Correct Marked out of 7.00 ▼ Flag question

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

Result

yes 🗸
no 🗸