Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801136

Name: Jeyamalini J N

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

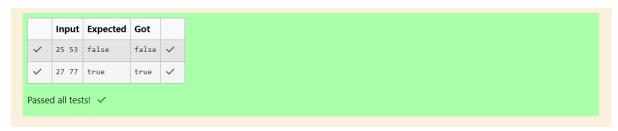
Sample Output 2

true

Code:

Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Saturday, 26 October 2024, 2:54 PM
Duration	58 days 2 hours

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 weird.

Input Format

A single line containing a positive integer, n.

Constraints

• 1 < n < 100

Output Format

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

Sample Input 0

3

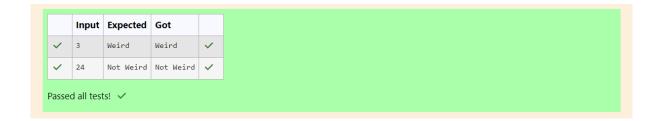
Sample Output 0

Weird

Code:

```
#include <stdio.h>
2 v int main(){
3
       int a;
        scanf("%d",&a);
4
5 *
       if (a%2 == 0){
6 🔻
            if (a>=2 && a<=5){
                printf("Not Weird");
7
8
9 🔻
            else if (a>=6 && a<=20){
               printf("Weird");
10
11
            else if (a>20){
12 🔻
                printf("Not Weird");
13
14
15
        else if (a%2!= 0){
16 🔻
17
           printf("Weird");
18
19 ▼
        else{
20
            printf("Not Weird");
21
22
        return 0;
23 }
```

OUTPUT:



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*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

Code:

```
1 #include <stdio.h>
 2 v int main(){
 3
       int a,b,c;
       //int ab = a*a+b*b;
 4
       scanf("%d %d %d",&a,&b,&c);
 5
      // int ab = a*a+(b*b);
 6
       if (a>=b && a>=c){
 7 🔻
            int ab = b*b + (c*c);
 8
 9 •
            if (ab == a*a){
 10
               printf("yes");
 11
 12 🔻
            else{
 13
             printf("no");
 14
 15
        else if(b>=a && b>=c){
 16 🔻
          int ab = a*a+(c*c);
 17
 18 🔻
            if (ab == b*b){
               printf("yes");
 19
 20
 21 🔻
            else{
 22
            printf("no");
 23
 24
        else if(c>=a && c>=b){
 25 🔻
           int ab = a*a+(b*b);
 26
            if (ab == c*c){
 27 🔻
 28
               printf("yes");
 29
            else{
 30 ⋅
 31
             printf("no");
 32
 33
           // printf("yes");
 34
        }
 35 ▼
        else{
        printf("no");
 36
 37
        }
 38
        return 0;
 39
 40 }
```

OUTPUT: