### Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801158

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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

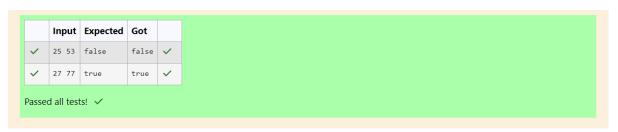
Sample Output 2

true

### Code:

```
Status Finished
            Started Monday, 23 December 2024, 5:33 PM
         Completed Thursday, 24 October 2024, 9:20 AM
           Duration 60 days 8 hours
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
Correct
                      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
Marked out of
                      Sample Output 2 true
Flag question
                      Answer: (penalty regime: 0 %)
                          1 #include <stdio.h>
                               int main(){
                                   int num1, num2;
                                  int lastDigit1 =num1 %10;
int lastDigit2 =num1 %10;
int lastDigit2 =num2 % 10;
if (lastDigit1 ==lastDigit2) {
                                  printf("true\n");
} else {
                          8
                                        printf("false\n");
                         11
                         12
13
                                   return 0;
```

# 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

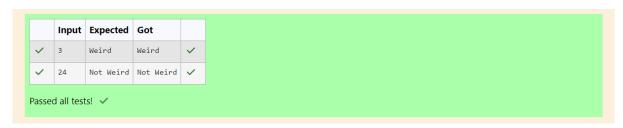
Sample Output 0

Weird

Code:

```
1
   #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){
10
                printf("Weird");
11
12 •
            else if (a>20){
                printf("Not Weird");
13
14
15
16 🔻
        else if (a%2!= 0){
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\*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:

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

# OUTPUT:

Input Expected Got
3 yes yes 🗸
5 no no v
2