Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801169

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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

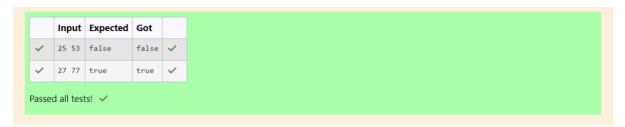
Code:

```
Status Finished
           Started Monday, 23 December 2024, 5:33 PM
        Completed Saturday, 26 October 2024, 2:11 PM
          Duration 58 days 3 hours
Question 1
                   Write a program to read two integer values and print true if both the numbers end with the same digit,
Correct
                   otherwise print false. Example: If 698 and 768 are given, program should print true as they both end with 8.
Marked out of
                   Sample Input 1 25 53 Sample Output 1 false Sample Input 2 27 77 Sample Output 2 true
                   Answer: (penalty regime: 0 %)

▼ Flag question

                       1 #include(stdio.h)
                       2 int main()
                       3 v {
                       4
                               int a, b;
                              scanf("%d", &a);
                       5
                              scanf("%d", &b);
                       6
                       7
                               if (a%10 == b%10)
                       8 +
                               {
                       9
                                   printf("true");
                      10
                               }
                      11
                               else
                      12 v
                               {
                                   printf("false");
                      13
                      14
                      15
                               return 0;
                      16 }
```

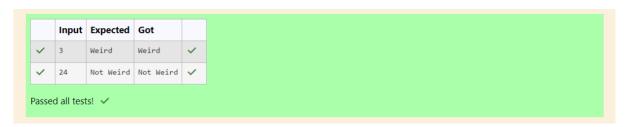
OUTPUT:



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:

```
2 1
    #include<stdio.h>
    int main(){
   int n;
   scanf("%d", &n);
   if (n%2 != 0)
   {
 6
              printf("Weird");
 7
8
         }
else
{
 9
10
11
              if (n>=2 && n<=5)
12 v
                   printf("Not Weird");
14
              }
              else
{
15
16
17
18
                   if (n>=6 && n<=20)
                   {
19
                       printf("Weird");
20
21
                   else
                   {
                       printf("Not Weird");
23
24
25
26
27
          }
28
30
          return 0;
31 }
```

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, aa, bb, cc;
         scanf("%d", &a);
scanf("%d", &b);
scanf("%d", &c);
  4
  5
  6
          aa = a * a;
  7
  8
          bb = b * b;
  9
          cc = c * c;
          if ((aa + bb == cc)|| (bb + cc == aa)||(aa + cc == bb))
 10
 11 *
              printf("yes\n");
 12
          }
 13
 14
         else
 15 ₹
          {
             printf("no\n");
 16
          }
 17
 18
         return 0;
 19 }
```

OUTPUT:

