Week 3-1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801182

Name: Lokesh M

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, 2:51 PM
Duration 58 days 2 hours
```

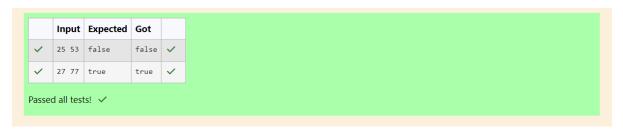
Question 1
Correct
Marked out of 3.00
F Flag question

Write a program to read two integer values and print true if both the numbers end with the Example: If 698 and 768 are given, program should print true as they both end with 8. Samp false Sample Input 2 27 77 Sample Output 2 true

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
      int main()
 3 ,
     {
           int num1, num2;
           scanf("%d%d",&num1,&num2);
           int lastDigit1 = num1%10;
int lastDigit2 = num2%10;
if(lastDigit1 == lastDigit2)
 6
 8
 9 ,
           {
                printf("true\n");
10
           }else{
11 1
               printf("false\n");
12
13
14
           return 0;
15 }
```

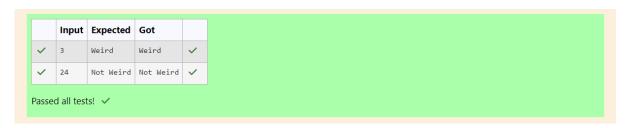
OUTPUT:



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>
    int main()
 2
3 ▼ {
         int n;
scanf("%d",&n);
4
 5
         if(n%2!=0){
    printf("Weird\n");
 6
 7
8
         }else if(n>=2 && n<=5)
9 ,
             printf("Not Weird");
10
          }else if(n>=6 && n<=20)
11
12 •
            printf("Weird");
13
14
          }else
15
         {
            printf("Not Weird");
16
17
18
        return 0;
19
   }
```

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:

```
#include<stdio.h>
     int main()
 2
 3 ▼ {
         int a,b,c;
scanf("%d%d%d",&a,&b,&c);
if((a*a+b*b==c*c)||(a*a+c*c==b*b)||(b*b+c*c==a*a))
 4
 5
 6
 7 🔻
 8
             printf("yes\n");
         }else{
9 ,
          printf("no\n");
10
11
12
         return 0;
13 }
```

OUTPUT:

