Week 3 – 1:
--Coding-C-Language Features-Optional.

ROLL NO.:240801153

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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
2553

Sample Output 1
false

Sample Input 2
2777

Sample Out put 2

true Code:



Question 1
Correct
Marked out of

3.00

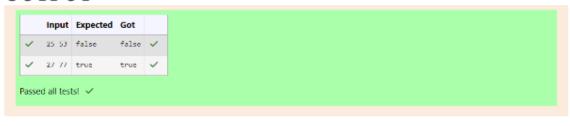
Flag question

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

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
    int main()
3 + {
4
   int a,b;
   scanf("%d %d",&a,&b);
5
    int lastdigit1=a%10;
6
 7
    int lastdigit2=b%10;
    if (lastdigit1==lastdigit2)
8
9 +
10
     printf("true");
11
12
    else
13 *
   {
     printf("false");
14
     }
15
16
    return 0;
17
```

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

Out put Format

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

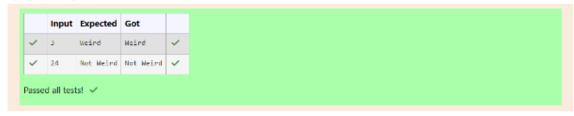
Sample Input 0

Sample Gut put 0 Weird

Code:

```
1 #include <stdio.h>
 2 - int main(){
 3
      int a;
      scanf("%d",&a);
4
5 v
      if (a%2 == 0){
         if (a>=2 && a<=5){
6 v
           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
       else if (a%2!= 0){
16 +
       printf("Weird");
17
18
       else{
19 v
       printf("Not Weird");
21
       return 0;
22
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
out put message is in small letters.
Sample Input 1
3
5
Sample Output 1
Yes
Code:
```

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

OUTPUT:



Passed all tests! 🗸