

# School of Continuing and Distance Education

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**Course : AIML**

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## Assignment-1

### Question:1

#### 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**

#### **Input Format**

- A single line containing a positive integer,  $n$ .

#### **Output Format**

- Print **Weird** if the number is weird. Otherwise, print **Not Weird**.

#### **Sample Input**

3

#### **Sample Output**

Weird

#### **Explanation 0**

$n = 3$

$n$  is odd and odd numbers are weird, so print **Weird**.

#### **Sample Input 1**

24

#### **Sample Output 1**

Not Weird

#### **Explanation 1**

$n = 24$

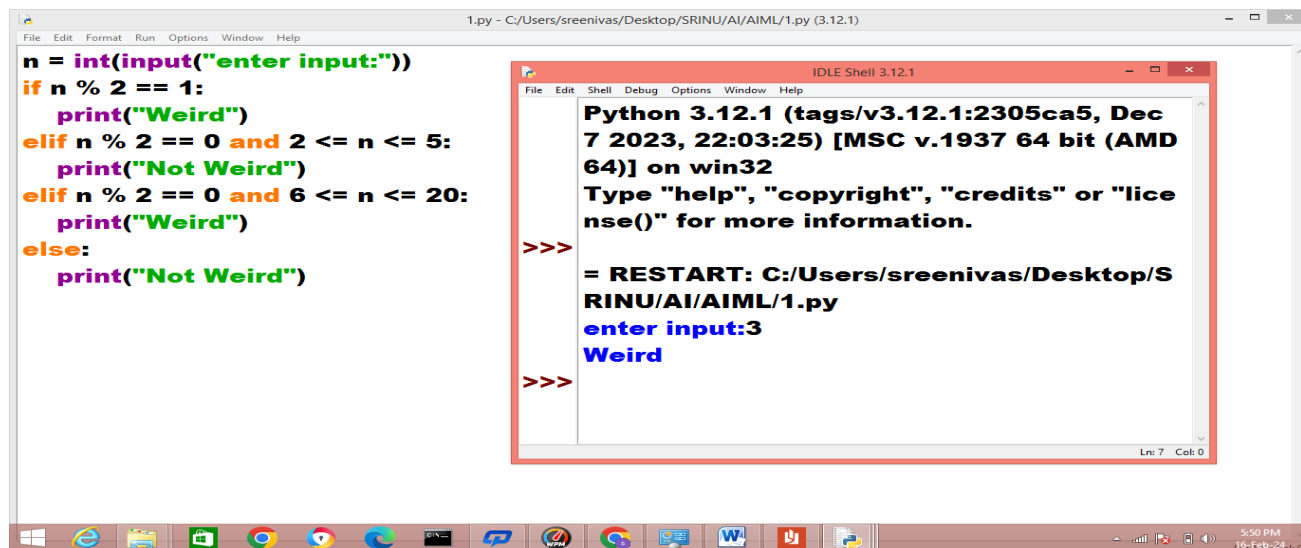
$n > 20$  and  $n$  is even, so it is not weird.

## Solution – Python

```
n = int(input("enter input:"))  
if n % 2 == 1:  
    print("Weird")  
elif n % 2 == 0 and 2 <= n <= 5:  
    print("Not Weird")  
elif n % 2 == 0 and 6 <= n <= 20:  
    print("Weird")  
else:  
    print("Not Weird")
```

## OUTPUT:

1) If n is odd, print **Weird**



The screenshot shows the Python IDLE Shell interface. On the left, the Python code is displayed with syntax highlighting. On the right, the shell output shows the program's execution for the input value 3. The output includes the Python version and build information, followed by the prompt 'enter input:3' and the resulting output 'Weird'.

```
n = int(input("enter input:"))  
if n % 2 == 1:  
    print("Weird")  
elif n % 2 == 0 and 2 <= n <= 5:  
    print("Not Weird")  
elif n % 2 == 0 and 6 <= n <= 20:  
    print("Weird")  
else:  
    print("Not Weird")
```

```
Python 3.12.1 (tags/v3.12.1:2305ca5, Dec  
7 2023, 22:03:25) [MSC v.1937 64 bit (AMD  
64)] on win32  
Type "help", "copyright", "credits" or "lice  
nse()" for more information.  
>>>  
= RESTART: C:/Users/sreenivas/Desktop/S  
RINU/AI/AIML/1.py  
enter input:3  
Weird  
>>>
```

2) If n is even and in the inclusive range of 2 to 5, print **Not Weird**

The screenshot shows a Python IDE window titled "1.py - C:/Users/sreenivas/Desktop/SRINU/AI/AIML/1.py (3.12.1)". The code in the editor is as follows:

```
n = int(input("enter input:"))
if n % 2 == 1:
    print("Weird")
elif n % 2 == 0 and 2 <= n <= 5:
    print("Not Weird")
elif n % 2 == 0 and 6 <= n <= 20:
    print("Weird")
else:
    print("Not Weird")
```

The IDLE Shell window shows the execution output:

```
Python 3.12.1 (tags/v3.12.1:2305ca5, Dec 7 2023, 22:03:25) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/sreenivas/Desktop/SRINU/AI/AIML/1.py
enter input:4
Not Weird
>>>
```

3) If  $n$  is even and in the inclusive range of 6 to 20, print **Weird**

The screenshot shows a Python IDE window titled "1.py - C:/Users/sreenivas/Desktop/SRINU/AI/AIML/1.py (3.12.1)". The code in the editor is as follows:

```
n = int(input("enter input:"))
if n % 2 == 1:
    print("Weird")
elif n % 2 == 0 and 2 <= n <= 5:
    print("Not Weird")
elif n % 2 == 0 and 6 <= n <= 20:
    print("Weird")
else:
    print("Not Weird")
```

The IDLE Shell window shows the execution output:

```
Python 3.12.1 (tags/v3.12.1:2305ca5, Dec 7 2023, 22:03:25) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/sreenivas/Desktop/SRINU/AI/AIML/1.py
enter input:20
Weird
>>>
```

4) If  $n$  is even and greater than 20, print **Not Weird**

```
1.py - C:/Users/sreenivas/Desktop/SRINU/AI/AIML/1.py (3.12.1)
File Edit Format Run Options Window Help
n = int(input("enter input:"))
if n % 2 == 1:
    print("Weird")
elif n % 2 == 0 and 2 <= n <= 5:
    print("Not Weird")
elif n % 2 == 0 and 6 <= n <= 20:
    print("Weird")
else:
    print("Not Weird")

Python 3.12.1 (tags/v3.12.1:2305ca5, Dec 7 2023, 22:03:25) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/sreenivas/Desktop/SRINU/AI/AIML/1.py
enter input:24
Not Weird
>>>
```

## Explanation:

### Input Format

- A single line containing a positive integer,  $n$ .

### Output Format

- Print Weird if the number is weird. Otherwise, print Not Weird.

### Sample Input

3

### Sample Output

Weird

### Explanation 0

$n = 3$

$n$  is odd and odd numbers are weird, so print Weird.

### Sample Input 1

24

### Sample Output 1

Not Weird

### Explanation 1

$n = 24$

$n > 20$  and  $n$  is even, so it is not weird.

## Question:2

### Task:-

Given the participants' score sheet for your University Sports Day, you must find the runner-up score. You are given n scores. Store them in a list and find the score of the runner-up.

### **Input Format**

The first line contains n. The second line contains an array A [ ] of n integers are each separated by a space.

### **Constraints**

$$2 \leq n \leq 10$$

$$-100 \leq A [i] \leq 100$$

### **Sample Input 0**

```
5
2 3 6 6 5
```

### **Sample Output 0**

```
5
```

## **Solution – Python**

```
n = int(input( ))
arr = map(int,input().split())
listes =sorted(list(set(arr)))
runner= listes[-2]
print (runner)
```

## **OUTPUT:**

```
2.py - C:/Users/sreenivas/Desktop/SRINU/AI/AIML/2.py (3.12.1)
File Edit Format Run Options Window Help
n = int(input( 'enter number:'))
arr = map(int,input().split())
listes =sorted(list(set(arr)))
runner= listes[-2]
print (runner)
```

```
Python 3.12.1 (tags/v3.12.1:2305ca5, Dec 7
2023, 22:03:25) [MSC v.1937 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "licens
e()" for more information.
>>>
= RESTART: C:/Users/sreenivas/Desktop/SRI
NU/AI/AIML/2.py
enter number:4
2 3 6 5
5
>>>
```

Ln: 8 Col: 0

Ln: 6 Col: 0

5:46 PM  
16-Feb-24