

## ASSIGNMENT-1

### Question 1:

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.

Sample Input 0: 3

Sample Output 0 : Weird

Sample Input 1: 24

Sample Output 1: Not Weird

Program:

```
N=int(input("enter a number"))
```

```
if N % 2 != 0:
```

```
    print("wierd")
```

```
else:
```

```
    if N >= 2 and N <= 5:
```

```
        print("Not Weird")
```

```
    elif N >= 6 and N <= 20:
```

```
        print("Weird")
```

```
    elif N > 20:
```

```
        print("Not Weird")
```

OUTPUT:

```
Enter a number :3
```

```
wierd
```

### Question 2:

Write a Python program to construct the following pattern, using a nested for loop.

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

Program:

```
n=5;
for i in range(n):
    for j in range(i):
        print ('* ', end="")
    print('')

for i in range(n,0,-1):
    for j in range(i):
        print('* ', end="")
    print('')
```

Output:

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

Question 3:

Write a Python program that iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for multiples of five print "Buzz". For numbers that are multiples of three and five, print "FizzBuzz".

Program:

```
for fizzbuzz in range(51):
    if fizzbuzz % 3 == 0 and fizzbuzz % 5 == 0:
        print("fizzbuzz")
        continue
    elif fizzbuzz % 3 == 0:
        print("fizz")
        continue
    elif fizzbuzz % 5 == 0:
        print("buzz")
```

```
        continue
    print(fizzbuzz)
```

Output:

Enter the last range of numbers for FizzBuzz Problem :50

```
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
Fizz
22
23
Fizz
Buzz
26
Fizz
28
29
FizzBuzz
31
32
Fizz
34
Buzz
Fizz
37
38
Fizz
Buzz
41
Fizz
43
44
FizzBuzz
```

46  
47  
Fizz  
49  
Buzz