

Week 6 – “Nested if”

1) On nested if:

A simple guessing application using nested if:

```
guess = int(input("Please enter a number between 0 and 50: "))
if guess < 50:
    print ("Your guess is below 50, ")
    if 10>guess>=0:
        print("and it is between 0 and 10")
    elif 20>guess>=10:
        print("and it is between 10 and 20")
    elif 30>guess>=20:
        print ("and it is between 20 and 30")
    elif 40>guess>=30:
        print ("and it is between 30 and 40")
    elif 50>guess>=40:
        print ("and it is between 40 and 50")
else:
    print("Your number is not between 0 and 50")

print ("Good bye!")
```

2) Example 2:

Example 2: Finding whether a given number is divisible by two and three

```
num = int(input("Please enter any number: "))
if num%2 == 0:
    if num%3 == 0:
        print (num, " is divisible by 3 and 2")
    else:
        print (num, " is divisible by 2 and not divisible by 3")
else:
    if num%3 == 0:
        print (num, " is divisible by 3 and not divisible by 2")
    else:
        print (num, " is not divisible by 2 not divisible by 3")
```