Introduction to Computer Programming

2.2 User input & nested conditionals

In-class Demos

Example 1: Write a program that asks for the user's age and checks if they are 18 or over.

In [1]:

```python
age = input("Enter your age: ")

age = int(age)

if age > 18:
    print('18 or over')
```

```
Enter your age: 56
18 or over
```

Example 2: Write a program that:

- asks the user to input a number
- checks if a number is odd or even
- checks if input even numbers are multiples of 4
- checks if input odd numbers are multiples of 3

Hint: In a conditional statement:

- non-zero values are treated as True
- zero is treated as false

In [7]:

```python
N = input('Enter a number: ')
N = int(N)

if N % 2:
    print('odd number', end='')

    if not N % 3:
        print(' and multiple of 3')

else:
    print('even number', end='')

    if not N % 4:
        print(' and mulitple of 4')
```
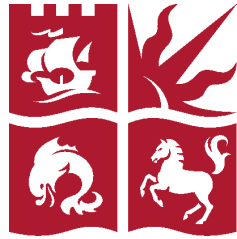
```
Enter a number: 33
odd number and multiple of 3
```

In [ ]:

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In [7]:

```
```

```
Enter a number: 33
odd number and multiple of 3
```

In [ ]:

```
```