

## If statements Homework

### Question 1

If statements are very important and necessary to large scale projects. Please write down 3 tasks that you will need if statements to solve.

### Question 2

We know that every single if-statement needs to begin with the keyword “if” and that you can add more cases (extend the if-statement) by using elif and else. What is the difference between elif and else?

### Question 3

Look at the provided code at the bottom. Your goal is to extend the code to print “Hello” if  $x+y$  is greater than 20, print “Bye” if  $x+y$  is greater than 100 and print “Cool” in all other cases.

```
x = 40
```

```
y = 70
```

```
# Type your code for the if-statement below
```

### Question 4

Look at the provided code below. What is wrong with it? What can you do to fix the code to make it work correctly?

```
age = 70
```

```
if age >= 13:
```

```
    print("You are a teen")
```

```
elif age >= 65:
```

```
    print("You are old")
```

```
else:
```

```
    print("You are a child")
```