

IHF: CODE

PYTHON — SESSION 3

REVIEW

COMMENTS

```
# The total including VAT
```

```
total = sub_total + vat
```

```
has_paid = False # If the user has paid or not
```

CASTING

```
x = int(8.3)    # x will be 8
y = float(9)    # y will be 9.0
z = str(10.0)   # z will be '10.0'
```

INDEX

C	H	A	R	L	I	E
0	1	2	3	4	5	6

```
name = "CHARLIE"  
print(name[0]) # Prints 'C'  
print(name[1]) # Prints 'H'
```

INPUT

```
name = input("What's your name? ")  
print("Hello " + name)
```

```
age = int(input("How old are you? "))  
age_in_10_years = age + 10  
print("In 10 years you will be " + str(age_in_10_years))
```

QUESTIONS?

CONDITIONALS

IF

IF

```
if True:  
    print("This is always shown")
```

```
if False:  
    print("This is never shown")
```

IF

```
if <expression>:  
    # Will only be run if the expression is True  
    <code>
```

INDENTING

INDENTING

```
name = "Alice"  
if name == "Alice":  
    print("Hello Alice")
```

INDENTING

```
name = "Alice"  
if name == "Alice":  
    print("Hello Alice")  
    print("How are you?")  
  
print("Thanks")
```

COMPARATORS

COMPARATOR	DESCRIPTION	EXAMPLE
==	Equals	"Alice" == "Alice"
!=	Does not equal	"Bob" != "Charlie"
<	Less than	4 < 10
>	Greater than	12 > 8
<=	Less than or equal to	7 <= 7
>=	Greater than or equal to	8 >= 5

COMPARATORS

```
name = "Alice"
if name == "Alice":
    print("Hello Alice")

if name != "Charlie":
    print("You are not Charlie")

age = 24
if age >= 21:
    print("You are 21 or over")
```


COMPARATORS

```
name = "Alice"
if name == "Alice":
    print("Hello Alice")

if name != "Charlie":
    print("You are not Charlie")

age = 24
if age >= 21:
    print("You are 21 or over")
```

ELSE

ELSE

```
if 1 == 1:  
    print("Yes")  
else:  
    print("No")
```

ELSE

```
if <expression>:  
    # Will only be run if the expression is True  
    <code>  
else:  
    # Will only be run if the expression is False  
    <code>
```

ELSE

```
name = "Alice"
if name == "Alice":
    print("Hello Alice")
else:
    print("You are not Alice")

age = 15
if age >= 21:
    print("You are 21 or over")
else:
    print("You are 20 or younger")
```

ELSE

```
name = "Alice"
if name == "Alice":
    print("Hello Alice")
else:
    print("You are not Alice")

age = 15
if age >= 21:
    print("You are 21 or over")
else:
    print("You are 20 or younger")
```

CODING TIME

SECTION A

ELIF

ELIF

```
name = "Bob"
if name == "Alice":
    print("Hello Alice")
elif name == "Bob":
    print("Hello Bob")
else:
    print("You must be Charlie")
```

ELIF

```
age = int(input("How old are you? "))
if age <= 13:
    print("You are 13 or younger")
elif age < 18:
    print("You are between 14 and 17")
elif age == 18:
    print("You are 18")
else:
    print("You are 19 or over")
```

ELIF

```
age = int(input("How old are you? "))
if age <= 13:
    print("You are 13 or younger")
elif age < 18:
    print("You are between 14 and 17")
elif age == 0:
    # This can never be run
    print("You aren't born yet")
else:
    print("You are 19 or over")
```

AND, OR, NOT

AND, OR, NOT

```
if age > 12 and age < 20:  
    print("You are a teenager")
```

```
if age < 13 or age > 19:  
    print("You are not a teenager")
```

```
if not (age > 12 and age < 20):  
    print("You are not a teenager")
```

CODING TIME

SECTION B

ANY QUESTIONS
GO TO SLIDO #IHFCODE