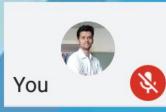


Code blocks and indentation in Python.



• REC ments

- Comments are an important part of any program. A comment is a text that describes what the program or a particular part of the program is trying to do and is ignored by the Python interpreter.
- Comments are used to help you and other programmers understand, maintain, and debug the program.
- Python uses two types of comments: single-line comment

#This is single line Python comment

multiline comments.

#This is
#multiline comments **\bar{\kappa}
#in Python



• REC ding Input

In Python, input() function is used to gather data from the user. The syntax for input function is,

variable_name = input([prompt])

- >>> person = input("What is your name?")
- What is your name? Carrey
- >>> person
- 'Carrey'



• REC t Output

- The print() function allows a program to display text onto the console.
- print("Hello World!!")
 Hello World!!
- Two major string formats which are used inside the print() function to display the contents onto the console
- ▶ 1. str.format()
- 2. f-strings

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• REC ormat() Method

- ▶ The syntax for format() method is, str.format(p0, p1, ..., k0=v0, k1=v1, ...)
- p0, p1,... are called as positional arguments and, k0, k1,... are keyword arguments with their assigned values of v0, v1,... respectively.
- Formatted strings or f-strings were introduced in Python 3.6. A f-string is a string literal that is prefixed with "f". These strings may contain replacement fields, which are expressions enclosed within curly braces □. The expressions are replaced with their values.

```
Example:
```

```
USN = input("Enter your USN: ")

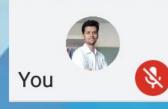
Name = input("Enter your Name: ")

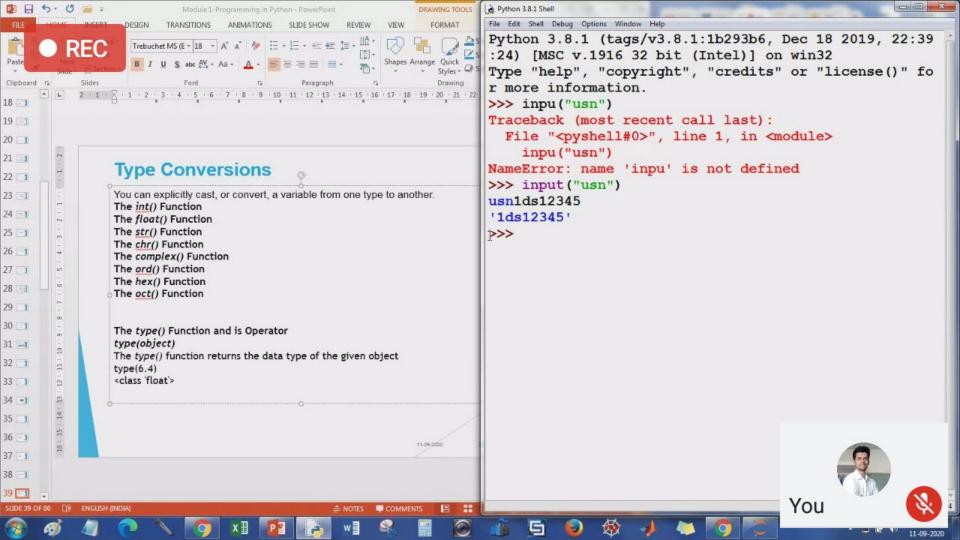
print("Student USN is {0} and name {1}".format(@SN, Name))

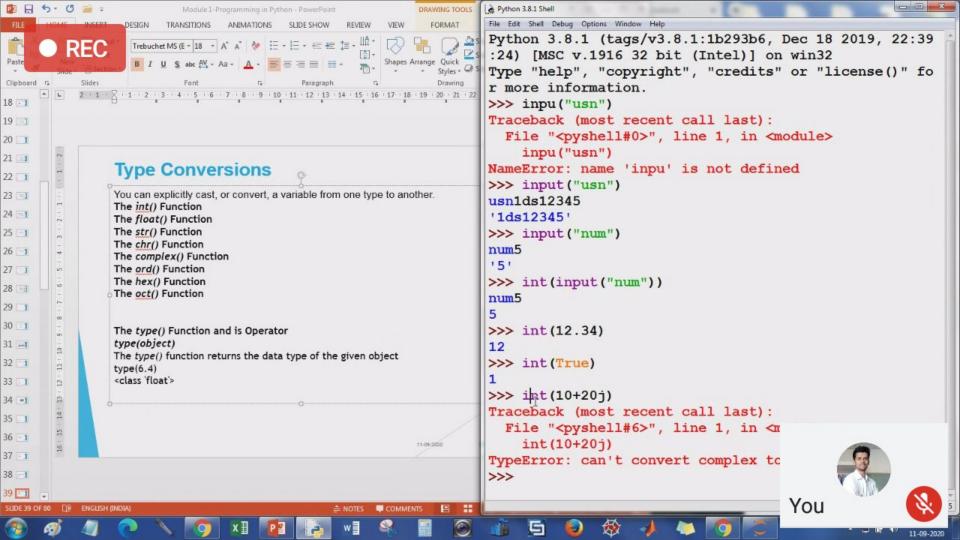
print("Student name is {1} and USN is {0}".format(USN, Name))

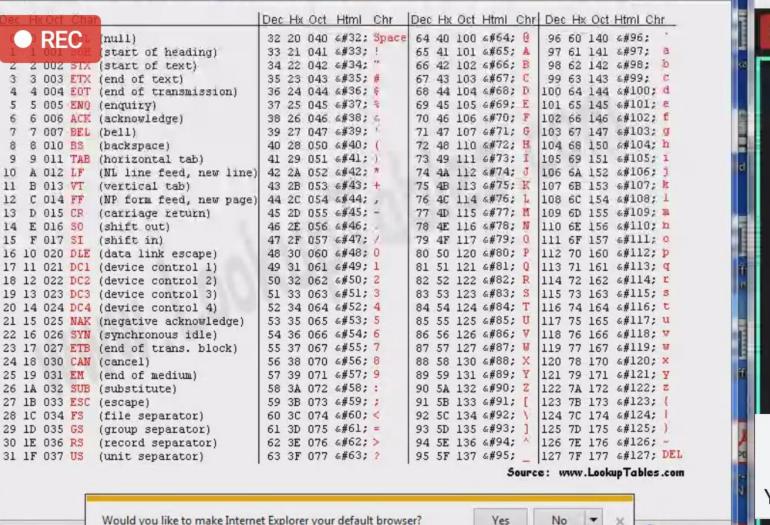
print("Student belongs to {Section}, ECE".format(Section = "6ABCD"))

print(f"Student USN {USN} and {Name}")
```









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is, is not

- The operators is and is not are identity operators. Operator is evaluates to True if the values of operands on either side of the operator point to the same object and False otherwise.
- ▶ The operator is not evaluates to False if the values of operands on either side of the operator point to the same object and True otherwise.
- >>> a=2
- >>> b=2
- >>> a is b

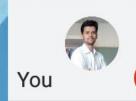
True

>>> a is not b

False

- >>> c=4
- >>> a is not c

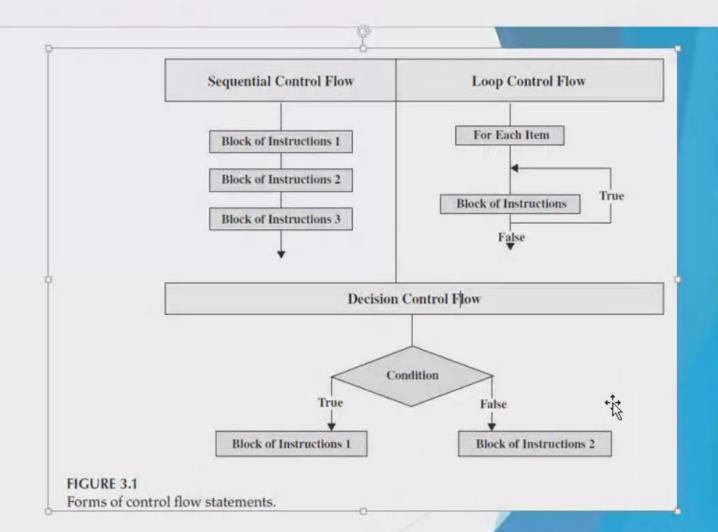
True







Control Flow Statements



ontrol flow statements

The control flow statements in Python Programming Language are

- 1. Sequential Control Flow Statements: This refers to the line by line execution, in which the statements are executed sequentially, in the same order in which they appear in the program.
- 2. Decision Control Flow Statements: Depending on whether a condition is True or False, the decision structure may skip the execution of an entire block of statements or even execute one block of statements instead of other (if, if...else and if...elif...else).

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Soop Control Flow Statements: This is a control structure that allows the execution of a block of statements multiple times until a loop termination condition is met (for loop and while loop). Loop Control Flow Statements are also called Repetition statements or Iteration statements.



