



Leaders' School & College Chattogram

Class: IX (Bangla Version)

L#02

Topic Name: Escape Sequences, Variables and Data Types

Md. Amin Kaiser

B.Sc. in CSE, DUET

Assistant Teacher(ICT)

E-mail: aminkaiser90@gmail.com

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More About print()



❑ 10x Print Your Name: Simple Solution!

A screenshot of a code editor interface. At the top, there are two tabs: 'main.py' and 'test.py'. The 'test.py' tab is active and highlighted with a blue underline. Below the tabs, the code editor shows a single line of Python code: `print("Amin" * 10)`. The code is color-coded: 'print' is blue, the opening parenthesis is blue, 'Amin' is green, the asterisk is blue, and '10' is blue. The closing parenthesis is blue. A yellow line number '5' is visible on the left side of the code line. Below the code line, there is a small orange circle.

❑ Output:

AminAminAminAminAminAminAminAminAminAminAmin

Escape Sequences



- ❑ Escape sequences allow you to insert special characters in strings.
- ❑ Put a backslash (\) before the character you want to escape.
- ❑ \n: Newline
- ❑ \t: Tab
- ❑ \": Double Quote
- ❑ 10x Print Your Name: Simple Solution!

```
print("Amin \t" * 10)
```

❑ Output:

Amin Amin Amin Amin Amin Amin Amin Amin Amin Amin

Escape Sequences: New Line



❑ 10x Print Your Name: Simple Solution!

```
print("Amin \n" * 10)
```

❑ Output:

Amin

Amin

Amin

Amin

Amin

Amin

...

...

Comments on Python



- ❑ Used to include explanatory or descriptive text within the code that is not executed as part of the program
- ❑ They are intended to provide additional information to readers and developers of the code.
- ❑ Single Line Comments: Start with #

```
# This is a single-line comment
```

- ❑ Multi-line Comments:

```
"""  
This is a multi-line comment.  
It spans across multiple lines.  
"""
```

Variables



- ❑ Variables are used to store values in memory
- ❑ Python does not require you to explicitly declare the data type of a variable.
- ❑ When you assign a value to a variable, Python automatically assigns a data type based on the value.

You can assign a value to a variable using the assignment operator (=).

The general syntax is:

variable_name = value

```
message = "Hello, world!"
```

Variables: Some Rules to Follow



- ❑ Variable names must start with a letter or underscore (_), but not with a number.
- ❑ Variable names can only contain letters, numbers, and underscores.
- ❑ Variable names are case sensitive. For example, "myVar" and "myvar" are two different variables.
- ❑ You cannot use reserved keywords as variable names, such as "if," "while," "for," "and," "or," "not," and "else."
- ❑ It's a good practice to use descriptive and meaningful variable names, so it's easy to understand the purpose of the variable.

Variables: Some Rules to Follow



```
my_var = 5
```

```
myVar = 6
```

```
_myvar = 7
```

```
1var = 5 # variable name cannot start with a number
```

```
my-var = 6 # variable name cannot contain hyphen
```

```
if = 7 # variable name cannot be a reserved keyword
```

Data Types



- ❑ Integer: Whole numbers without decimals (e.g., 5, -10).
- ❑ Float: Real numbers with decimals (e.g., 3.14, -2.5).
- ❑ String: A sequence of characters (e.g., "Hello", 'Python').
- ❑ Boolean: Represents either True or False.

```
student_count = 1000 # Integer
grade = 3.69 # Float
is_passed = True # Boolean
course_name = "Python Programming" # String
print(student_count)
print(grade)
print(is_passed)
print(course_name)
```

Check Data Type



❑ `type()`: function is used to determine the type of an object.

```
student_count = 1000    # Integer
grade = 3.69            # Float
is_passed = True        # Boolean
course_name = "Python Programming" # String
print(type(student_count))
print(type(grade))
print(type(is_passed))
print(type(course_name))
```

Q/A Session

