Input from end user

var = input("Enter the number:")

print(type(var))

printing to console/reading from keyboard the datatypes which is associated with the value is always a string

conversion function - this method convert one data type to another

int() - convert string to int

float() - convert string to float

str() - converts number/bool to string

var = int(input("enter the number : ")) - first input will be read from the keyboard and then converted to integer value and assigned to the var

Q1. To calculate area of circle where radius is provided by the end user

- ask user to enter radius

- store it into var rad

- calculate area using the formula area = 3.141\*rad\*rad

- print aread

Q2. Write down a program which takes user input for principle, rate and time, based on user input calculate the simple interest the user has to pay

principal-int

rate-double

time-int

SI = (P\*R\*T)/100

# Python Basics

## Data Types

number - int, float

string - a collection of chars

boolean - true/false

variable declaration -

var = 32 => integer

dbl = 90.65 => string

str = "hello" => string

flag = false => boolean

# Conditional Loop

String Objects

List objects

Tuple

Sets

Dictionary

Map

Reduce

Filter

OOPS concept and working with files

# Python Advances

Modules

Exception Handling

Database programming

# Data Visualization(Matplotlib, seaborn, Plotly, Cuflinks)

# Projects

Web Scrapping

Image scrapping with deployment using Flask

# Machine Learning

Linear regression

Logistics regression

Neutral networks

CNN

YOLO

# Hands on above topics