Presentation

Understanding RAM & Variables

RAM and Memory Storage

- **RAM (Random Access Memory)** is the short-term memory of your computer.
- When you run a program, it is loaded into RAM.
- **Variables** in programming are stored in RAM while the program runs.

Variables and Assignment Operator

- A **variable** is a name that stores a value.
- The **assignment operator =** is used to assign values to variables.

```
name = "Jack"
age = 21
```

Data Types Overview

Common Data Types in Python

- `int` – Integer numbers : it can store the integer numbers

  ```
  num = 10
  ```

- `float` – it can store the Decimal numbers

  ```
  pi = 3.14
  ```

- `str` – Text or string

  ```
  string = "Hello"
  ```

- `list` – Collection of values

  ```
  fruits = ["apple", "banana", "mango"]
  ```

type() Function and Type Inference

- `type()` tells the type of a variable:

  ```
  type(10)  # Output: <class 'int'>
  ```

- **Type inference**: Python automatically detects data types based on the value:

  `x = 5.0`

- `# Python knows this is a float`

Modules and Installation

Keywords and System Functions

- **Keywords** are reserved words in Python (like `if`, `else`, `import`) that can't be used as variable names.
- **System functions** are built-in (like `print()`, `len()`, etc.)

say() Function

- This say() function Comes from **`pyttsx3`** module

  it is used for text-to-speech.

  #first we need to import the library that is pyttsx3(python text to speech)

  ```
  import pyttsx3

  #then we initilized this library in the engine function

  engine = pyttsx3.init()

  engine.say("Hello, Jack")
  engine.runAndWait()
  ```

pip Command and Installing Modules

- Use `pip` (Python installer) to install new libraries:

  ```
  bash
  CopyEdit
  pip install pyttsx3
  pip install pywhatkit
  ```

Practical Implementation

Using import

- To use any external or built-in module, we use `import keyword`:

  ```
  using import keyword we can install the required librarys or modules
  ```

- ```
  import math
  import pywhatkit
  ```

Sending WhatsApp Messages via Python

You can send WhatsApp messages using `pywhatkit`:

pywhatkit is one of the library in python . To send the whatsapp message thrpugh the python script

here is the code to send the whatsapp msg through the python

pip install pywhatkit

import pywhatkit as kit

#this is a module that is use in whatspp

Specify the phone numebr with the country code

phone_number = input("enter the mobile number : ")

#enter the message that you want to send the perticular numeber

message = input("enter the message that you want to send :")

Send the message instantly

kit.sendwhatmsg_instantly(phone_number, message)
  ```

Interview Questions