



Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO. 1

SUBJECT: INFORMATICS PRACTICE

CLASS-XI

APRIL, 2025

CH 1: Computer system overview

1. What is the difference between hardware and software?
2. Define the term operating system.
3. Give two examples of open-source operating systems.
4. What is the function of the CPU in a computer system?
5. What is the difference between RAM and ROM?
6. Write two examples of input devices and two of output devices.
7. Define the term peripheral device.
8. What is the role of a compiler?
9. What is meant by cloud computing?
10. Differentiate between primary and secondary memory.

CH 2 : Getting started with python

1. What is Python? Mention any two features.
2. Name any two popular Python IDEs.
3. What is the extension of a Python file?
4. What is meant by interactive mode in Python?
5. What is the difference between interactive and script mode?
6. What does the print() function do in Python?
7. How do you start the Python shell in your system?
8. Write the output of: print("Welcome" + "2025")
9. What is syntax error in Python?
10. Write a simple Python program to display your name and age.

CH 3 : Python Fundamentals

1. What are identifiers in Python? Give examples.
2. Name any two valid and two invalid identifiers.
3. What is a variable? How is it created in Python?
4. Write the output of:

```
a = 5
```

```
b = 2
```

```
print(a ** b)
```

5. What is the difference between = and == in Python?
6. List the different data types in Python.
7. What is dynamic typing in Python?
8. Write a Python expression to calculate the area of a circle.
9. What is the output of: `type(3.14)`?
10. What is the purpose of the `input()` function?