4/28/25, 12:56 PM Day 28

Number of approaches to develop the programs in python

```
Number of Approaches to Develop Programs in Python

What is a Program?
>A program is a collection of optimized instructions designed to perform a specific >Optimized instructions aim to minimize time complexity and space complexity.
>When we write a program, it should require less time and space, making it optimize >In Python, every program must be saved with a filename that has a .py extension (e >The primary purpose of writing a program is "to solve real-time problems or tasks.

Real-Time Tasks/Problems in two ways:

1. By using intractive approches
2. By using batch mode approches
```

By using interactive approch:

By using batch mode approches:

```
In [2]: # Program for adding two numbers:
    a=10
    b=20
    c=a+b
    print("-"*50)
    print("val of a=",a)
    print("val of a=",b)
    print("sum=",c)
    print("-"*70)
```

4/28/25, 12:56 PM Day 28

```
val of a= 10
      val of a= 20
      sum= 30
In [4]: # Program for adding two numbers:
       a=float(input("enter the first value:"))
       b=float(input("enter the second value:"))
       c=a+b
       print("sum({},{})={}".format(a,b,c))
      sum(200.0,300.0)=500.0
In [ ]: | -----
               IDE - Integrated Development Environment
       _____
       => An IDE is a type of third-party software.
       => IDEs provided by third-party developers offer additional services to programmers
          such as:
            - Syntax highlighting
            - Function assistance
            - Auto-completion
            - Debugging tools
            - Etc.
       Example:
          PyCharm — IDE developed by JetBrains
```