

Q1

```
list = ["DBDA"]
with open(r"E:\PythonPrograms\Practice\Assignment after CCEE\Day 02
Test.py", "r") as file:
    for line in file:
        list.append(line.strip())
print(list)
```

The screenshot shows a Visual Studio Code interface with the following details:

- Project Explorer:** Shows a project named "Practice" located at "E:\PythonPrograms\Practice". It contains several files: "ipynb_checkpoints", ".venv", "Assignment after CCEE", "Day 01 Test.py", "DAY 01 20-01.ipynb", "Day 02.ipynb", "Day 02 Test.py", "Day 03.ipynb", "Day 03 Test.py", and "Untitled1.ipynb".
- Editor:** The "Day 03 Test.py" file is open. The code reads a file named "DBDA" and prints its contents. The output in the terminal shows the file's content.
- Terminal:** The terminal window shows the command run: "E:\PythonPrograms\Practice\.venv\Scripts\python.exe E:\PythonPrograms\Practice\Assignment after CCEE\Day 03 Test.py". The output is: "Final list: ['DBDA', '#2', '##import os', '', 'current_file=os.path.realpath(__file__)', 'print("Current File:", current_file)', '##', '#3', '##', '##']".
- Status Bar:** The status bar at the bottom shows the file path as "ice > Assignment after CCEE > Day 03 Test.py", and the status "1:21 CRLF UTF-8 P Practice".

Q2

```
try:  
    a=int(input("Enter first number "))  
    b=int(input("Enter second number "))  
    result = a / b  
    print(result)  
except Exception as e:  
    print("Error:", e)
```

The screenshot shows a code editor interface with a dark theme. On the left, there's a 'Project' sidebar listing several Python files and folders. In the center, a code editor window displays the provided Python script. Below the code editor is a terminal window showing the execution of the script and its output. The terminal output shows the user entering '10' as the first number and 'sd' as the second number, resulting in an error message: 'Error: invalid literal for int() with base 10: 'sd''. The bottom status bar indicates the file path 'E:\PythonPrograms\Practice\Assignment after CCEE\Day 03 Test.py', the encoding 'UTF-8', and the Python version 'Python 3.12 (Practice)'.

```
try:  
    a=int(input("Enter first number "))  
    b=int(input("Enter second number "))  
    result = a / b  
    print(result)  
except Exception as e:  
    print("Error:", e)
```

```
E:\PythonPrograms\Practice\Assignment after CCEE> Day 03 Test.py  
Enter first number 10  
Enter second number sd  
Error: invalid literal for int() with base 10: 'sd'
```

Q3

```
def list(data):
    s = []
    total = 0
    for i in data:
        if i.isdigit():
            total += int(i)
        else:
            s.append(i)
    return "#".join(s), total
```

The screenshot shows a code editor interface with a dark theme. On the left is a project sidebar titled 'Project' showing a directory structure under 'Practice E:\PythonPrograms\Pr'. The main area displays a Python script named 'Day 03 Test.py'. The code defines a function 'list' that processes a list of strings. It initializes 'total' to 0, iterates through each item 'i' in the list. If 'i' is a digit, it converts it to an integer and adds it to 'total'. If 'i' is not a digit, it appends it to a list 's'. Finally, it returns a string where elements of 's' are separated by '#' and the value of 'total'. Below the code, a variable 'data' is defined with a list of strings: '100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', and '500'. A call to 'print(list(data))' is shown. At the bottom, the terminal window shows the output: "('welcome#hi#bye#welldone', 1100)". The status bar at the bottom right indicates the current time as 13:18, file encoding as CRLF, and Python version as 3.12 (Practice).

```
Project ▾
  Practice E:\PythonPrograms\Pr
    ipynb_checkpoints
    venv
    Assignment after CCEE
      ipynb_checkpoints
      Day 01 Test.py
      DAY 01 20-01.ipynb
      Day 02.ipynb
      Day 02 Test.py
      Day 03.ipynb
      Day 03 Test.py
      Untitled1.ipynb
    Python DSA

Run Day 03 Test x

E:\PythonPrograms\Practice\.venv\Scripts\python.exe "E:\PythonPrograms\Practice\Assignment after CCEE\Day 03 Test.py"
('welcome#hi#bye#welldone', 1100)

13:18 CRLF UTF-8 P Practice M Material Oceanic 4 spaces Python 3.12 (Practice) 28°C ENG 18:25
```

Q4

```
data={"x": 5, "y": 15, "z": 25}
data1=dict(sorted(data.items(), key=lambda x: x[1]))
vals = list(data1.values())
n = len(vals)
mid = n // 2
if n % 2 == 0:
    print(data1)
    print(vals[mid - 1] + vals[mid])
else:
    print(data1)
    print(vals[mid - 1] + vals[mid])
```

The screenshot shows a code editor interface with a sidebar labeled 'Project'. The project structure includes a 'Practice' folder containing '.ipynb_checkpoints', '.venv', and 'Assignment after CCEE' folder which contains 'Day 01 Test.py', 'DAY 01 20-01.ipynb', 'Day 02.ipynb', 'Day 02 Test.py', 'Day 03.ipynb', 'Day 03 Test.py', and 'Untitled1.ipynb'. A 'Python DSA' folder is also present. Three Python files are open in tabs at the top: 'Day 01 Test.py', 'Day 02 Test.py', and 'Day 03 Test.py'. The 'Day 03 Test.py' tab is active, displaying the provided code. Below the tabs is a 'Run' section with a dropdown menu set to 'Day 03 Test'. A terminal window at the bottom shows the command 'E:\PythonPrograms\Practice\.venv\Scripts\python.exe "E:\PythonPrograms\Practice\Assignment after CCEE\Day 03 Test.py"' being run, followed by the output '{'x': 5, 'y': 15, 'z': 25}' and '20'.