

Python Programming

Practice – 6

Overview

This practice reinforces us to understand the need for fancier output besides file handling techniques.

- *Fancier formatted output.*
- *File Handling.*
- *Random Accessing.*
- *Command line arguments.*
- *Redirection.*

We shall put these elements in creating Python programs in this practice session.

Hands On

1. Write program to convert the given number to a string.
 - [a] Using the **str()** function
 - [b] Using the **repr()** function
2. Using the string justification methods generate a table for the square and cubes of the first ten numbers.
 - [a] Use different justification like, left, right and center and observe the output
3. Write a program which writes the given phrases to a text file by name “**PHRASES.TXT**” in the current directory.
4. Write a program to read the contents of a specified text file line by line.
5. Write program to write the following data into a file **CUSTOMER.DAT**
 - [a] The customer details are as follows :
Customer ID, Name and Age
The details are delimited by (“ ~ “) tilde sign.
 - [b] The customer details are accepted from the user and written into the data file until the user has no more records to be written.
 - [c] The same file could be used to add additional records later. Thus ensure an appropriate file opening mode.

6. Write a program to illustrate random access mechanism in context to files
7. Write a program to illustrate command line arguments.
8. Write program to simulate the following using command line arguments.
 - [a] The **cat** command of UNIX
 - [b] The **nl** command of UNIX
 - [c] The **head** and **tail** command of UNIX
9. The **os** module environ directory hold all the key-value pairs. Write a program to simulate the **set** or the **env** command.
10. Set the standard output to a file by name “**OUTPUT**” and perform output redirection.