1. How do you distinguish between shutil.copy() and shutil.copytree()?

Ans: - shutil.copy() copies content of source file to destination file (1-to-1 copy) and it doesn’t include metadata copying where source file and destination directory should already exists. Shutil.copytree() copies entire directory/files from root path provided into destination directory (recursive 1-to-1 copy). In this case, destination directory name should not be given/exists already as it will be taken care during copy process itself. Metadata information such as permissions and date of file modification can also be copied in case of shutil.copytree() by internal call to copystat() method and shutil.copy2() method.

2. What function is used to rename files?

Ans: - os.rename(old\_file\_name, new\_file\_name)

3. What is the difference between the delete functions in the send2trash and shutil modules?

Ans: - send2trash deletion deletes files from current directory and sends to recycle temporary directory path provided which can be fetched later, if required. Shutil.rmtree() deletes files/directories permanently.

4.ZipFile objects have a close() method just like File objects’ close() method. What ZipFile method is equivalent to File objects’ open() method?

Ans: - zipfile.Zipfile(file\_name.zip)

5. Create a programme that searches a folder tree for files with a certain file extension (such as .pdf or .jpg). Copy these files from whatever location they are in to a new folder.

Ans: - from shutil import copytree, ignore\_patterns

shutil.copytree(src, dst,ignore= ignore\_patterns('\*.exe','\*.ipynb','\*.xlsx','\*.tmp','\*.docx','\*.mp4','\*.ini'))

