```
# Initialize predefined folder and subfolders
initialize_folders() {
  base_dir="MyData"
  subfolders=("text" "images" "videos" "documents" "others")
  mkdir -p "$base_dir"
  for folder in "${subfolders[@]}"; do
    mkdir -p "$base_dir/$folder"
  done
}
# Function to display the main menu
show_menu() {
  echo "-----"
  echo "File Management System"
  echo "-----"
  echo "1. Create a file"
  echo "2. Create a directory"
  echo "3. List files and directories"
  echo "4. Move or rename a file/directory"
  echo "5. Search for a file"
  echo "6. Delete a file"
  echo "7. Delete a directory"
  echo "8. Auto Organize Files"
  echo "9. Exit"
  echo "-----"
  echo -n "Enter your choice: "
}
```

```
# Function to create a file
create_file() {
  echo -n "Enter file name to create: "
  read file_name
  touch "$file_name" && echo "File '$file_name' created." echo "Failed to create file."
}
# Function to create a directory
create_directory() {
  echo -n "Enter directory name to create: "
  read dir_name
  mkdir -p "$dir_name" && echo "Directory '$dir_name' created." echo "Failed to create directory."
}
# Function to list files and directories
list_items() {
  echo "Listing files and directories:"
  ls -l
}
# Function to move or rename a file/directory
move_or_rename() {
  echo -n "Enter the current name of the file/directory: "
  read current_name
  echo -n "Enter the new name or location: "
  read new_name
  mv "$current_name" "$new_name" && echo "Moved/Renamed successfully." echo "Failed to
move/rename."
```

```
}
# Function to search for a file
search_file() {
  echo -n "Enter the name of the file to search: "
  read search_name
  find . -name "$search_name" && echo "Search complete." echo "File not found."
}
# Function to delete a file
delete_file() {
  echo -n "Enter the name of the file to delete: "
  read file_name
  rm -i "$file_name" && echo "File '$file_name' deleted." echo "Failed to delete file."
}
# Function to delete a directory
delete_directory() {
  echo -n "Enter the name of the directory to delete: "
  read dir_name
  rm -ir "$dir_name" && echo "Directory '$dir_name' deleted." echo "Failed to delete directory."
}
# Function to auto organize files
auto_organize() {
  echo "Organizing files in the 'MyData' folder..."
  base_dir="MyData"
  declare -A extension_map=(["txt"]="text" ["jpg"]="images" ["png"]="images" ["mp4"]="videos"
["pdf"]="documents" ["docx"]="documents")
```

```
for file in "$base_dir"/*; do
    if [[ -f "$file" ]]; then
      extension="${file##*.}"
      if [[ -n "${extension_map[$extension]}" ]]; then
         folder="${extension_map[$extension]}"
      else
         echo "Unknown file type detected: $(basename "$file")"
         echo "Available types: ${subfolders[*]}"
         read -p "Enter the type for this file: " folder
         mkdir -p "$base_dir/$folder"
         extension_map["$extension"]="$folder"
      fi
      mv "$file" "$base_dir/$folder/"
      echo "Moved '$(basename "$file")' to '$folder/'"
    fi
  done
  echo "Auto-organization complete!"
# Main program loop
initialize_folders
while true; do
  show_menu
  read choice
  case $choice in
    1) create_file ;;
    2) create_directory ;;
    3) list_items ;;
```

}

```
4) move_or_rename;;
5) search_file;;
6) delete_file;;
7) delete_directory;;
8) auto_organize;;
9) echo "Exiting File Management System."; exit 0;;
*) echo "Invalid choice! Please try again.";;
esac
echo # Print a blank line for readability
done
```