BeginnerScriptingTasks.md 2025-05-09

Friday Challenge Tasks: Linux Scripts

Task 1

Create a new file called task1.sh.

Creata s simple script that will print out the following:

```
Hello, World!
```

Task 2

Create a new file called task2.sh.

Create a script that will print out the following:

```
Hello, World!
Today is: <current date>
You are logged in as: <username>
Your current working directory is: <current directory>
```

Task 3

Create a new file called task3.sh.

Create a script that will print out the following and uses the user's input to print out their name:

```
Hello, what is your name?
My name is: <name>
```

Task 4

Create a new file called task4.sh.

NOTE: You can either do it by asking the user for input or by hardcoding the numbers in the script.

Create a script that compares two numbers and prints out the following:

```
Enter the first number: NUMBER1
Enter the second number: NUMBER2
The first number is greater than the second number.
```

If the numbers are equal, print out the following:

```
Enter the first number: NUMBER1
Enter the second number: NUMBER2
The numbers are equal.
```

If the second number is greater than the first number, print out the following:

```
Enter the first number: NUMBER1
Enter the second number: NUMBER2
The second number is greater than the first number.
```

Task 5

Create a new file called task5.sh.

Create a script that will create as many files as the user specifies. The script should take the following arguments:

- The directory where the files will be created
- The number of files to create

Bonus: The files should be named file1.txt, file2.txt, file3.txt, etc. Don't hardcode the file names. Try to automate the process.

Task 6

Create a new file called task6.sh.

Create a script that asks you for an input after every file you created. When you type yes, the script creates the next file. When you type no, the script stops creating files.

Task 7

Create a new file called task7.sh.

Create a script that will ask the user for a file name and then print out the following:

```
What is the name of the file you are looking for?
The file <filename> exists.
```

If the file does not exist, print out the following:

```
What is the name of the file you are looking for?
The file <filename> does not exist.
```

Task 8

Create a new file called task8.sh.

Create a script that creates a backup of a directory. The script should take the following arguments:

- Source directory
- Destination directory

The script should copy all files from the source directory to the destination directory.

Bonus: Add a check to see if the destination directory exists. If it does not, create it. Name the backup directory with the current date.

Task 9

Create a new file called task9.sh.

Create a script that prompts the user for a directory path and then calculates and prints the total size of all files in that directory.

Task 10

Create a new file called task10.sh.

Create a script that asks you for a password and then checks if the password meets the following criteria:

- At least 8 characters long
- Contains at least one uppercase letter
- Contains at least one lowercase letter
- Contains at least one number
- Contains at least one special character

If the password meets all the criteria, print out the following:

Password is valid.

If the password does not meet all the criteria, print out the following:

Password is invalid.

BIG BONUS CHALLENGE

Task 11

Create a new file called ec2-instance.sh. Create a script that will create an EC2 instance in AWS. The script should take the following arguments:

- Instance type
- Key pair name
- Security group
- AMI ID
- Region

The script should use the AWS CLI to create the EC2 instance.

Task 12

Polish it even more and add the following:

- Add a check to see if the instance was created successfully.
- If the instance was created successfully, print out the following:

Instance created successfully.

• If the instance was not created successfully, print out the following:

Instance was not created successfully.

IDEA: It can be a good idea to create a script that will ask the user for the instance type, key pair name, security group, AMI ID, and region. Then it will create the EC2 instance using the AWS CLI.