**Linux Programming: Assignment-7**

**1. What is a bash shell script? Give one example.**

Answer:

File with a series of commands and run automatically.

**2. Write a simple shell script to print “Hello World”.**

Answer:

echo "Hello World"

**3. What is the purpose of comments (#) in a shell script?**

Answer:

To add comments, explaining what the code does.

**4. How do you declare variables (int, float, double, string, Boolean, and char in a shell script?**

Answer:

name=John

age=25

**5. Write a shell script to display the current date and time of the system.**

Answer:

Date

**6. Explain the difference between a constant and a variable in bash script.**

Answer:

|  |  |
| --- | --- |
| **Constant** | **Variable** |
| Value cannot be changed after declaration | Value can be changed after declaration |
| Declared using readonly variable\_name = value | Declared using variable\_name = value |
| Used for values that should remain fixed and unchanged. | Used for values that may change during script execution. |

**7. Write a shell script to read two integer number from the user and compute the sum of both the number.**

Answer:

read num1

read num2

echo $((num1 + num2))

**8. What is the use of source command in shell scripting?**

Answer:

Runs a script in the current shell

**9. How can you debug a shell script? Give two methods.**

Answer:

bash -x script.sh or add set -x in the script.

**10. Write a bash script to create and delete a file.**

Answer:

touch file.txt

rm file.txt