University of Cyprus

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Team 4

Assignment 4

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Exercise 1:

Objective:

The objective of exercise 1 was to make a shell script that greets the user every time the user login. Depents of what time is it, it will show a different message.

Explanation of the solution method:

To creat this program I used the Ubuntu terminal and used the commands:

1. **sudo nano /etc/update-motd.d/hello**
2. **I wrote the code on the code screen that appeared**
3. **I pressed Ctrl+O**
4. **I pressed Enter**
5. **I pressed Ctrl+X**
6. **sudo chmod +x /etc/update-motd.d/hello**
7. **sudo login**
8. **Then I logged in and the message appeared**

Exercise 2:

Objective:

The objective of exercise 2 was to make a shell script that gets a number n from the user and calculates the factorial, the fibonacci value, the GCD and checks if the number n is prime.

Explanation of the solution method:

To creat this program I used the Ubuntu terminal and used the commands:

1. **touch Assignment_4-2.sh**
2. **I opened the Assignment_4-2.sh**

3. **I wrote the code for each calculation (the formulas for chacking if the number is prime and for GCD found them on internet)**
4. **I saved and closed the Assignment_4-2.sh**
5. **chmod +x Assignment_4-2.sh**
6. **./ Assignment_4-2.sh**

Exercise 3:

Objective:

The objective of exercise 3 was to make a shell script that finds every image of .jpg type in the current folder and rename it to “DD-MM-YYYY-itsname.jpg”

Explanation of the solution method:

To creat this program I used the Ubuntu terminal and used the commands:

1. **touch Assignment_4-3.sh**
2. **I opened the Assignment_4-3.sh**
3. **I wrote a code that uses the command “find” to find every image of .jpg type and then rename to the form asked them one by one**
4. **I saved and closed the Assignment_4-3.sh**
5. **chmod +x Assignment_4-3.sh**
6. **./ Assignment_4-3.sh**

Exercise 4:

Objective:

The objective of exercise 4 was to make a shell script that works like the command grep but for multiple search patterns.

Explanation of the solution method:

To creat this program I used the Ubuntu terminal and used the commands:

1. **touch mgrep.sh**
2. **I opened the mgrep.sh**
3. **I wrote a code that uses the command grep for as all the arguments given**
4. **I saved and closed the mgrep.sh**
5. **chmod +x mgrep.sh**
6. **./ mgrep.sh**