Домашня робота №5

Завдання 1

#!/bin/bash

echo "Hello, World!"

Завдання 2

#!/bin/bash

read -p "What is your name? " username

echo "Hello, $username!"

Завдання 3

#!/bin/bash

# Conditional statement example: Check if a file exists

filename="example.txt"

if [ -f $filename ]; then

echo "The file exists."

else

echo "The file does not exist."

fi

Завдання 4

#!/bin/bash

for i in {1..10}

do

echo "$i"

done

Завдання 5

#!/bin/bash

if [ "$#" -ne 2 ]; then

echo "Usage: $0 source\_file destination\_path"

exit 1

fi

source\_file="$1"

destination="$2"

if [ ! -f "$source\_file" ]; then

echo "Error: Source file '$source\_file' does not exist."

exit 1

fi

cp "$source\_file" "$destination"

if [ $? -eq 0 ]; then

echo "File copied successfully from '$source\_file' to '$destination'."

else

echo "Error: Failed to copy the file."

fi

Завдання 6

#!/bin/bash

read -p "Enter a sentence: " sentence

words=($sentence)

for (( i=${#words[@]}-1 ; i>=0 ; i-- )); do

echo -n "${words[i]} "

done

echo

Завдання 7

#!/bin/bash

if [ "$#" -ne 1 ]; then

echo "Usage: $0 filename"

exit 1

fi

filename="$1"

if [ ! -f "$filename" ]; then

echo "Error: File '$filename' does not exist."

exit 1

fi

line\_count=$(wc -l < "$filename")

echo "The file '$filename' has $line\_count lines."

Завдання 8

#!/bin/bash

fruits=("Apple" "Banana" "Cherry" "Date" "Elderberry")

for fruit in "${fruits[@]}"

do

echo "$fruit"

done

Завдання 9

#!/bin/bash

if [ "$#" -ne 1 ]; then

echo "Usage: $0 filename"

exit 1

fi

filename="$1"

if [ -f "$filename" ] && [ -r "$filename" ]; then

echo "Contents of '$filename':"

cat "$filename"

else

echo "Error: File '$filename' does not exist or cannot be read."

exit 1

fi

Завдання 10

#!/bin/bash

WATCH\_DIR="$HOME/watch"

mkdir -p "$WATCH\_DIR"

if ! command -v fswatch &> /dev/null; then

echo "Помилка: fswatch не встановлено. Встанови через Homebrew: brew install fswatch"

exit 1

fi

fswatch -0 "$WATCH\_DIR" | while read -d "" FILE

do

if [ -f "$FILE" ]; then

echo "Знайдено новий файл: $(basename "$FILE")"

echo "Вміст файлу:"

cat "$FILE"

mv "$FILE" "${FILE}.back"

echo "Файл перейменовано у: $(basename "${FILE}.back")"

fi

done

Unit]

Description=Watch ~/watch directory for new files

After=network.target

[Service]

Type=simple

ExecStart=/home/pc/watch\_dir.sh

Restart=always

RestartSec=5

User=pc

Environment=HOME=/home/pc

[Install]

WantedBy=default.target