AUX PROJECT 1: SHELL SCRIPTING

Shell Scripting for the 10 tasks

```
#! /bin/bash
# Task 1: Ask for name and age
read -p "Enter your name: " name
read -p "Enter your age: " age.
# Task 2: Create a new directory and navigate into it
read -p "Enter a directory name: "dir_name.
mkdir "$dir name"
cd "$dir_name"
# Task 3: List files sorted by size
Is -IS
# Task 4: Count the number of files
file_count=$(ls -1 | wc -l)
echo "Number of files: $file_count"
# Task 5: Take a list of numbers and calculate the sum
read -p "Enter a list of numbers separated by spaces: " numbers.
sum=0
for num in $numbers; do
sum = ((sum + num))
done
echo "Sum of the numbers: $sum"
# Task 6: Output a random number
random_number=$((RANDOM % 100 + 1))
echo "Random number: $random_number"
# Task 7: Create a backup of a specified file
read -p "Enter the filename to backup: " filename.
backup_dir="backup"
mkdir -p "$backup_dir"
timestamp=$(date +%Y%m%d%H%M%S)
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cp "$filename" "$backup_dir/$filename.$timestamp"
echo "Backup created: $backup_dir/$filename.$timestamp"
# Task 8: Check if a website is online
read -p "Enter a website URL: " url
if curl --output /dev/null --silent --head --fail "$url"; then
 echo "Website is up"
else
 echo "Website is down"
# Task 9: Convert Celsius to Fahrenheit
read -p "Enter temperature in Celsius: " celsius
fahrenheit=$(echo "scale=2; $celsius * 9 / 5 + 32" | bc)
echo "Temperature in Fahrenheit" $fahrenheit"
# Task 10: Reverse a sentence
read -p "Enter a sentence: " sentence
reversed=""
len=${#sentence}
for (( i=$len-1; i>=0; i-- )); do
 reversed="$reversed${sentence:$i:1}"
done
echo "Reversed sentence: $reversed."
```

Screen record (images)

Image 1: shell scripting for 10 task in the file.

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MINGW64/Cesers/enwazez/shell

# Task 1: Ask for name and age
read -p "Enter your name: " name
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read -p "Enter a directory name: " dir_name
mkdir "Sdir_name"

# Task 2: Create a new directory and navigate into it
read -p "Enter a directory name: " dir_name

# Task 3: List files sorted by size

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# Task 4: Count the number of files

# Task 5: Task a list of numbers and calculate the sum
read -p "Enter a list of numbers separated by spaces: " numbers
sum=0

for num in Snumbers; do

sum (S(sum + num))

**Sum (S(sum + num))

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**Task 5: Create a backup of a specified file
read -p "Enter the filename to backup: " filename
backup_dir="backup_dir"

# Task 7: Create a backup of a specified file
read -p "Enter the filename to backup: " filename
backup_dir="backup_dir"

# Task 7: Create a backup of filename. Stimestamp"

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# Task 8: Check if a website is online
read -p "Enter a website URL: " url
if curl --output /dev/null --silent --head --fail "Surl"; then
eecho "Website is up)

**Task 8: Line (Imix) (15:07 01/06/2023)

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Image 2: Results