

UET Lahore
Department of Computer
Science
Operating Systems Lab
Lab # 4

Instructions:

1. You have to submit a typora .
2. Plagiarism is strictly prohibited; negative marks would be given to students who cheat.

Task 1(Decisions)

1. Create a Bash script which will take 3 numbers as command line arguments. It will print to the screen the larger of the three numbers.
2. Create a Bash script which will print a message based upon which day of the week it is (eg. 'Happy day' for Wednesday, 'blessed' for Friday etc) using switch statement.

Task 2 (Loops)

1. Create a simple script which will print the numbers 1 - 10 (each on a separate line) and whether they are even or odd.
2. Write a program that read number as input, calculate, and return the summation of the all digits of the number.

Example:

If given number: 745

Then result will be: $(7+4+5) = 16$

Task 3 (Functions)

1. Write a shell script which takes a positive integer as an argument on the terminal and then checks if it is a palindrome or not. In order to find the reverse of this number it must be passed to function named reverse(), which computes the reverse and passes both, the number and its reverse to another function called palindromeCheck(). palindromeCheck() then compares the numbers and echoes if the number is a palindrome or not.

Sample Output:

```
Main script started...
Calling function reverse()...

function reverse() started...
The reverse of 12321 is 12321...
Calling function palindromeCheck()...

function palindromeCheck() started...
12321 is a palindrome.

function palindromeCheck() ended...
function reverse() ended...
main script ending
```

2. Write a shell script which reads a number from the user and passes it to function named factorial(). This function finds the factorial of the number and prints it on the terminal. This task must be done using recursion.