1) Check if a given number is even or odd.
2) Find the factorial of a given number.
3) Determine the largest among three numbers.
4) Check if a string is a palindrome.
5) Print the Fibonacci sequence up to a specified number of terms.
6) Check if a number is prime or not.
7) Calculate and print the multiplication table of a number.
8) Find the sum of all even numbers between 1 and N.
9) Find the sum of all natural numbers from 1 to N.
10) Reverse a given number.
11) Check if a file exists in a specified directory.
12) Calculate the factorial of a number using a while loop.
13) Find the sum of all digits in a number.
14) Create a menu-based script using a case statement for different actions.
15) Generate a random number and have the user guess it.
16) Calculate the average and sum of a list of numbers.
17) Calculate the exponent of a number using a for loop.
18) Check if a given year is a leap year.
19) Validate a string as a valid email address.
20) Build a simple calculator that performs basic arithmetic operations.
21) Check if a file is writable.
22) Find and display the second largest number in an array.
23) Count the number of words in a text file.
24) Generate a list of prime numbers up to a specified limit.
25) Determine the common elements between two arrays.
26) Convert a decimal number to binary.
27) Calculate the area of common geometric shapes (circle, triangle, rectangle) based on user input.
28) Generate a list of Armstrong numbers within a given range.

29) Implement a script to list files by their size in a directory.

30) Create a script that simulates a basic ATM machine for withdrawals and deposits.

For pattern printing

```
#!/bin/bash

echo "Enter the height of the inverted right triangle: "

read height

for ((i = height; i >= 1; i--))

do

 for ((j = 1; j <= i; j++))

 do

  echo -n "* "

 done

 echo

done
```