# Exp 2a)

Aim: To write a shellscript to build a basic calculator

#### Program:

## Output:

```
***** BASIC CALCULATOR *****
Choose an operation:
1. Addition (+)
2. Subtraction (-)
3. Multiplication (*)
4. Division (/)
Enter your choice [1-4]: 1
Enter first number: 1
Enter second number: 2
Result: 1 + 2 = 3
```

## 2b)

Aim: To write a shellscript to test a given year is leap or not using conditional statement.

#### Program:

```
#!/bin/bash
read -p "Enter a year: " year

if (( year % 400 == 0 )); then
   echo "$year is a leap year."
elif (( year % 100 == 0 )); then
   echo "$year is not a leap year."
elif (( year % 4 == 0 )); then
   echo "$year is a leap year."
else
   echo "$year is not a leap year."
fi
```

### Output:

```
Enter a year: 2024
leapyear.sh: 5: year: not found
leapyear.sh: 7: year: not found
leapyear.sh: 9: year: not found
2024 is not a leap year.
```