

Ex. No.: 2(b)

Shell Script

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Aim:

To write a Shell script to check whether a given year is a leap year or not using conditional statements.

Algorithm:

1. Start the script.
 2. Prompt the user to enter a year.
 3. Read the input year.
 4. Check the leap year condition:
 - A year is a leap year if it is divisible by 4 **and** not divisible by 100, **or** divisible by 400.
 5. Display whether it is a leap year or not.
 6. End the script.
-

Program: (leap.sh)

```
#!/bin/bash
```

```
# Script to check leap year
```

```
echo "Enter year:"
```

```
read year
```

```
if [ $((year % 4)) -eq 0 ]; then
```

```
    if [ $((year % 100)) -ne 0 ] || [ $((year % 400)) -eq 0 ]; then
```

```
        echo "Leap year"
```

```
    else
```

```
        echo "Not a leap year"
```

```
    fi
```

```
else
```

```
    echo "Not a leap year"  
fi
```

Sample Input and Output:

```
[REC@localhost ~]$ sh leap.sh
```

```
Enter year:
```

```
12
```

```
Leap year
```

Result:

The Shell script to test whether the given year is a leap year or not was successfully implemented and executed, and the output was verified.