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Program 1 (Leap year)

Date - 1/10/2020

```
echo "enter year (YYYY): "  
read y
```

```
a = "expr $y % 4"
```

```
b = "expr $y % 100"
```

```
c = "expr $y % 400"
```

```
if [ $a -eq 0 -a $b -ne 0 -o $c -eq 0 ]
```

```
then
```

```
echo $y is leap year
```

```
else
```

```
echo $y is not leap year
```

```
fi
```

Program 2 (Area of circle)

```
echo "enter radius"
```

```
read r
```

```
area = "echo 3.14159 * $r * $r | bc"
```

```
echo $area
```