LAB-3

1. Leap year or not

```bash
#!/bin/bash
echo "Enter the year"
read year
if [ $((year%400)) -eq 0 ]
then
echo "Year is leap"
fi
if [ $((year%100)) -eq 0]
then
echo "Not a leap year"
elif [ $((year%4)) -eq 0]
then
echo "Year is leap"
fi
```

O/P
Enter the year
2020
Year is leap

Enter the year
1300
Not a leap year

2. Greatest of Three numbers

```bash
#!/bin/bash
echo "Enter first number"
read a
echo "Enter second number"
read b
echo "Enter third number"
read c
if [ $a -gt $b ] && [ $a -gt $c ]
then
echo "$a is greater"
elif [ $b -gt $a ] && [ $b -gt $c ]
then
echo "$b is greater"
else
echo "$c is greater"
fi
```

o/p

Enter first number
4
Enter second number
6
Enter third number
5
6 is greater

3.
```bash
#!/bin/bash
echo "Enter the number"
read n
if [ $n -gt 0 ]
then
echo "$n is positive"
elif [ $n -lt 0 ]
then
echo "$n is negative"
elif [ $n -eq 0 ]
then
echo "$n is equal to zero"
fi
```
O/P -

```
Enter the number
5
5 is positive
```

```
Enter the number
-6
-6 is negative
```

4.
```bash
#!/bin/bash
if [ "$1" = "$2" ]
then
echo "Arguments are same"
else
echo "Arguments are different"
fi
```

O/P
```
sh arg.sh apoorva apoorva
Arguments are same

sh arg.sh apoorva apoo
Arguments are different
```

5.
```
#!/bin/bash

echo "Enter the marks"
read mark
if [ $mark -ge 90 ] && [ $mark -le 100 ]
then
echo "Grade is S"
elif [ $mark -ge 80 ] && [ $mark -le 89 ]
then
echo "Grade is A"
elif [ $mark -ge 70 ] && [ $mark -le 79 ]
then
echo "Grade is B"
elif [ $mark -ge 60 ] && [ $mark -le 69 ]
then
echo "Grade is C"
elif [ $mark -ge 50 ] && [ $mark -le 59 ]
then
echo "Grade is D"
elif [ $mark -ge 40 ] && [ $mark -le 49 ]
then
echo "Grade is E"
else
echo "Grade is F"
fi
```

O/P
Enter the marks
62
Grade is C

#!/bin/bash

if [$1 -gt $2] && [$1 -gt $3]
then
    echo "$1 is greater"
elif [$2 -gt $3] && [$2 -gt $1]
then
    echo "$2 is greater"
else
    echo "$3 is greater"
fi
O/P
sh great.sh 3 6 2
6 is greater