Shell Script using Conditional Statements

```
echo "Q1. Write a Shell Program to find greater value among two numbers."
echo -n "First number:"
read fst_num
echo -n "Second number:"
read snd_num
if test $fst_num -gt $snd_num
then
        echo $fst_num is greater than $snd_num.
else
        echo $snd_num is greater than $fst_num.
fi
```

```
popeye-ThinkPad-T450s➜  t3  ▷  sh q1.sh
Q1. Write a Shell Program to find greater value among two numbers.
First number:23
Second number:43
43 is greater than 23.
popeye-ThinkPad-T450s➜  t3  ▷
```

```
echo "Q2. Write a shell script to find odd and even number."
read -p "Enter the number to check even or odd:- " num
val=$(($num%2))
if test $val -eq 0
then
        echo -n "$num is even"
else
        echo -n "$num is odd"
fi
```

```
popeye-ThinkPad-T450s➜  t3  ▷  sh q2.sh
Q2. Write a shell script to find odd and even number.
Enter the number to check even or odd:- 2
2 is even%
```

```
echo "Q3. Write a shell script to print the day when user enter a day number."
read -p "Enter the number to display days:- " week
if test $week -eq 1
then
        echo "Sunday"
elif test $week -eq 2
then
        echo "Monday"
elif test $week -eq 3
then
        echo "Tuesday"
elif test $week -eq 4
then
        echo "Wednesday"
elif test $week -eq 5
then
        echo "Thrusday"
elif test $week -eq 6
then
        echo "Friday"
else
        echo "Satuarday"
fi
```

```
popeye-ThinkPad-T450s➜  t3  ▷  sh q3.sh
Q3. Write a shell script to print the day when user enter a day number.
Enter the number to display days:- 2
Monday
popeye-ThinkPad-T450s➜  t3  ▷
```

Q4. Write a shell script to input two numbers in command prompt and perform arithmetic operation as per the choice given by user using switch case.

```
echo "Q4. Write a shell script to input two numbers in command prompt and perform arithmetic op
echo "Choise opeator to perform:- \n+) Addition\n-) Subtraction\n/) Division\n*) Multipcation"
read n
case $n in
+) echo "Add = $(($1 + $2))" ;;
-) echo "Sub = $(($1 - $2))" ;;
/) echo "Div = $(($1 / $2))" ;;
\*) echo "Mul = $(($1 * $2))" ;;
esac
```

```
popeye-ThinkPad-T450s➜  t3  ▷  sh g4.sh 1 2
Q4. Write a shell script to input two numbers
Choise opeator to perform:-
+) Addition
-) Subtraction
/) Division
*) Multipcation
+
Add = 3
popeye-ThinkPad-T450s➜  t3  ▷
```

Q5. Write a Shell Program that prints the grades of a student based on the mark enter user.

```
echo "Q5. Write a Shell Program that prints the grades
read -p "Enter Operating System Marks: " os
read -p "Enater C++ Marks: " cpp
read -p "Enater Java Marks:" java
total=`expr $os + $cpp + $java`
echo "Total Marks:"$total
percentage=`expr $(($total / 3))`
echo "Percentage= $(($percentage)) %"
if [ $percentage -ge 80 ]
then
echo "First Class Distinction"
elif [ $percentage -ge 60 ]
then
echo "First class"
elif [ $percentage -ge 40 ]
then
echo "Second class"
else
echo "Class: Fail"
fi
```

```
popeye-ThinkPad-T450s➜  t3  ▷  sh g5.sh
Q5. Write a Shell Program that prints the grades of a student
Enter Operating System Marks: 70
Enater C++ Marks: 89
Enater Java Marks:77
Total Marks:236
Percentage= 78 %
First class
popeye-ThinkPad-T450s➜  t3  ▷
```

Q6. Write a Shell Program to find whether the year entered by user is leap year or not.

```
echo "Q6. Write a Shell Program to find whether the year
read -p "Enter Year(YYYY): " leap
echo taking year as $leap
if [ `expr $leap % 400` -eq 0 ]
then
echo leap year
elif [ `expr $leap % 100` -eq 0 ]
then
echo not a leap year
elif [ `expr $leap % 4` -eq 0 ]
then
echo leap year
else
echo not a leap year
fi
```

```
popeye-ThinkPad-T450s➜  t3  ▷  sh q6.sh
Q6. Write a Shell Program to find whether the year entered by
Enter Year(YYYY): 2023
taking year as 2023
not a leap year
popeye-ThinkPad-T450s➜  t3  ▷
```