Practical 4

```
Lakshay@Lenovo-M ~
$ vim oddeven.sh

Lakshay@Lenovo-M ~
$ sh oddeven.sh

This is program to find whether a number is even or odd
Enter a number:
544
544 is even.
```

```
~
echo
echo This is program to find whether a number is even or odd
#!/bin/bash
echo "Enter a number:"
read num
if [ $((num % 2)) -eq 0 ]
then
  echo "$num is even."
else
  echo "$num is odd."
fi
```

```
Lakshay@Lenovo-M ~
$ sh oddeven.sh

This is program to find whether a number is even or odd
Enter a number:
9999
9999 is odd.
```

```
~
echo
echo This is a program to find whether a number is prime or not.
#!/bin/bash
echo "Enter a number:"
read num
is_prime=1
for ((i=2; i<=num/2; i++))
do
  if [ $((num % i)) -eq 0 ]
  then
    is_prime=0
    break
  fi
done

if [ $is_prime -eq 1 ]
then
  echo "$num is a prime number."
else
  echo "$num is not a prime number."
fi
```

```
Lakshay@Lenovo-M ~
$ vim primeornot.sh

Lakshay@Lenovo-M ~
$ sh primeornot.sh

This is a program to find whether a number is prime or not.
Enter a number:
17
17 is a prime number.

Lakshay@Lenovo-M ~
$ sh primeornot.sh

This is a program to find whether a number is prime or not.
Enter a number:
45
45 is not a prime number.
```

```
echo
echo This is a program to find whether a number is palindrome or not.
echo
#!/bin/bash
echo "Enter a number:"
read num
reverse=0
original_num=$num

while [ $num -gt 0 ]
do
  remainder=$((num % 10))
  reverse=$((reverse * 10 + remainder))
  num=$((num / 10))
done

if [ $original_num -eq $reverse ]
then
  echo "$original_num is a palindrome."
else
  echo "$original_num is not a palindrome."
fi
```

```
Lakshay@Lenovo-M ~
$ sh palindromeornot.sh

This is a program to find whether a number is palindrome or not.

Enter a number:
45354
45354 is a palindrome.
```

```
Lakshay@Lenovo-M ~
$ sh palindromeornot.sh

This is a program to find whether a number is palindrome or not.

Enter a number:
453
453 is not a palindrome.
```

```
~
echo
echo This is a program to type number 1 to 7 and then print its corresponding day of week
echo
#!/bin/bash
echo "Enter a number from 1 to 7:"
read num

case $num in
  1) echo "Monday" ;;
  2) echo "Tuesday" ;;
  3) echo "Wednesday" ;;
  4) echo "Thursday" ;;
  5) echo "Friday" ;;
  6) echo "Saturday" ;;
  7) echo "Sunday";;
  *) echo "Invalid input! Please enter a number between 1 and 7." ;;
esac
```

```
Lakshay@Lenovo-M ~
$ sh weekday.sh

This is a program to type number 1 to 7 and then print its corresponding day of week

Enter a number from 1 to 7:
1
Monday

Lakshay@Lenovo-M ~
$ sh weekday.sh

This is a program to type number 1 to 7 and then print its corresponding day of week

Enter a number from 1 to 7:
7
Sunday

Lakshay@Lenovo-M ~
$ sh weekday.sh

This is a program to type number 1 to 7 and then print its corresponding day of week

Enter a number from 1 to 7:
8
Invalid input! Please enter a number between 1 and 7.
```