Lab Session 10

Q1:

```
-d /usr/bin   # for directory
-f /usr/bin # for file
```

Q2:

```bash
#!/bin/bash
echo "Enter first string:"
read s1
echo "Enter second string:"
read s2

if [ "$s1" = "$s2" ]; then
    echo "Strings are equal"
else
    echo "Strings are not equal"
fi
```

Q3:

```bash
#!/bin/bash

echo "Enter a number (1-3):"
read n

case $n in
    1) echo "January" ;;
    2) echo "February" ;;
    3) echo "March" ;;
    *) echo "Invalid" ;;
esac
```

Q4:

```bash
#!/bin/bash

echo "Enter your roll number:"
read roll

sum=0
count=0

for ((i=2; i<=roll; i+=2)); do
    sum=$((sum + i))
    count=$((count + 1))
done
if [ $count -gt 0 ]; then
    avg=$((sum / count))
    echo "Average of even numbers = $avg"
else
    echo "No even numbers found."
fi
```

Q5:

```bash
#!/bin/bash

echo "Enter day number:"

read day


case $day in

    1) echo "Sunday" ;;

     2) echo "Monday" ;;

     3) echo "Tuesday" ;;

     4) echo "Wednesday" ;;

     5) echo "Thursday" ;;

     6) echo "Friday" ;;

     7) echo "Saturday" ;;

     *) echo "Error: enter a number
1-7" ;;

     esac
```

Q6:

Using While:

```bash
i=1

while [ $i -le $# ]; do

    eval echo "Parameter $i = \$$i"

    i=$((i+1))

done
```

With Until:

```bash
i=1

until [ $i -gt $# ]; do

    eval echo "Parameter $i = \$$i"

    i=$((i+1))

done
```

Q7:

```bash
echo "Enter two numbers:"

read dividend divisor


while true; do

    echo "----- MENU -----"

    echo "1) Quotient"

    echo "2) Remainder"

    echo "Enter your choice:"

    read choice


  case $choice in

   1) echo "Quotient =
      $((dividend / divisor))"
      break;;

   2) echo "Remainder =
      $((dividend % divisor))"
      break;;

      *) echo "Invalid
     choice. Try again" ;;

   esac

 done
```