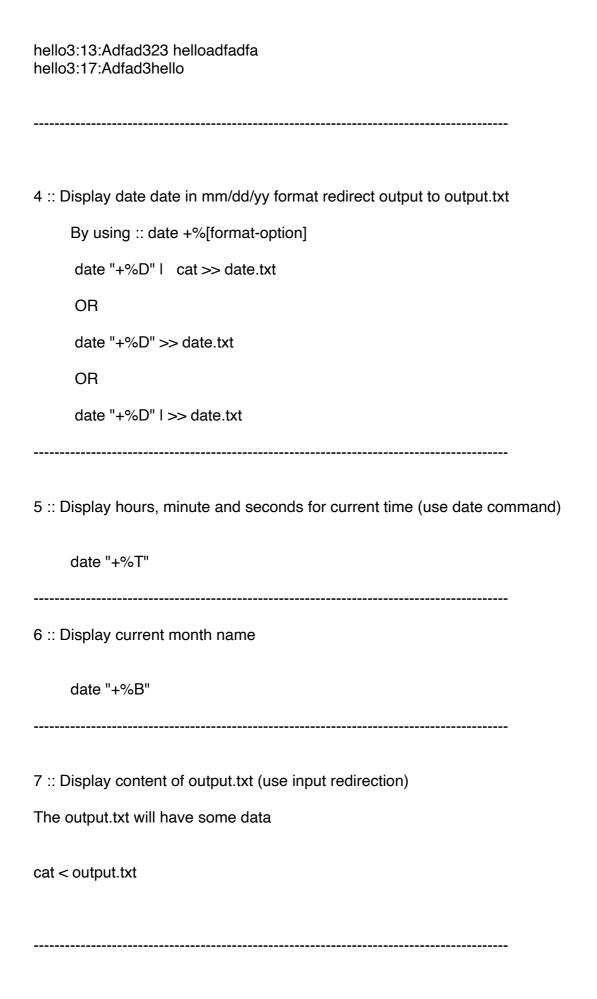
Add space between , it's not visible properly in pdf format.

hello2:12:323hello hello2:17:Hello

hello2:4:helloadfadfadf hello2:7:Adfafddhello

hello3:1:How are you hello hello3:8:What is this hello

hello2:10:Adfadhello;;fdofdsf



chapter 8th ::

1 ::

Write a function to accept character and return 1 if it vowel and 0 otherwise. Use this function in main to accept a character and display it Is vowel or not (use switch case in function to check for vowel)

```
#!/bin/bash
Vowel(){
echo -en "Vowel Check Script\n"
echo -en "Enter a character to check :: "
read CHAR
case $CHAR in
a) return 1;;
     return 1;;
     return 1;;
     return 1;;
o)
u) return 1;;
*) return 0;;
esac
Vowel
                # calling the function Vowel
result=$? # collecting the returned value from function in
                # variable result
if [ $result -eq 1 ]
then
echo "vowel"
```

```
else
echo "not"
fi
```

2 :: Write a function is Even, which accepts an integer as parameter and returns 1 if the number is even, and 0 otherwise.

Use this function in main to accept n numbers and check if they are even or odd.

```
#!/bin/bash
even(){
number=$1
if [ $((number%2)) -eq 0 ]
then
return 1
else
return 0
even $1 # calling the function and passing the
       # argument as command line argument
       # so run as :: bash evenCheck
anyNumberYouWantToCheck
RESULT=$? #collecting the returned value from function
if [ $RESULT -eq 1 ]
then
  echo "even"
else
 echo "odd"
```

3 ::Write a function isPrime, which accepts an integer as parameter and returns 1 if the number is prime and 0 otherwise.

Use this function in main to display the prime numbers between 1 to 50.

```
#!/bin/bash
prime() {
  current_number=$1
  flag=0
  i=2
  while test $i -le `expr $current_number / 2`
  do
    if test `expr $current_number % $i` -eq 0
    then
       flag=1
    i=`expr $i + 1`
  done
  if test $flag -eq 0
    then echo $current_number
  fi
x=$1
y=$2
for (( number=$x; number<=$y; number++ ))
 prime $number
```

4 :: Write a function to accept an integer and return sum of digits of the given number

5 :: Write a function to accept two integers x and y and calculate the sum of all integers between x and y (both inclusive)

```
#!/bin/bash
betweenTwoNumbers(){
echo -en "\nEnter x value ::"
read x
```

6 :: Write a function to accept n display following pattern.

1

12

123

1234

And for other related pattern based programs (in shell scripting)

https://www.tutorialsandyou.com/bash-shell-scripting/pyramid-and-pattern-10.html

```
#!/bin/bash

pattern(){
number=1
echo -n "Enter number of rows :: "
read rows
for((i=1; i<=rows; i++))
```

```
do
  for((j=1; j<=i; j++))
  do
    echo -n "$number "
    number=$((number + 1))
  done
  number=1
  echo
  done
}
pattern</pre>
```