School of
Science
AUSTRALIA
ECU
EDITH COWAN
UNIVERSITY

Scripting Languages: Workshop 3

Task 1

```bash
1    #!/bin/bash
2
3    # Write a script named fmaker.sh that prompts the user to provide a name for a directory to be created_
4        # _in the current working directory, and then creates that directory
5    # Ensure your script prints a message to the screen that the directory has been created
6    # This scripts assumes the dir name provided does not already exist in the current working directory
7
8    read -p 'Enter the name of the directory you want created: ' dirname
9    mkdir $dirname
10   echo "The $dirname directory has been created"
11
12   exit 0
```

Task 2

```bash
1    #!/bin/bash
2
3    # Write a script named getint.sh that prompts the user for their age as follows_
4        # _Please enter your age (enter a integer value only):
5    # Be sure that the (enter a integer value only) part of the statement is on its own line
6    # Once the age has been provided, print a message to this screen that confirms what age has been entered
7
8    echo -e "Please enter your age\n(enter an integer value only:"
9    read userage
10   echo "You have entered $userage as your age"
11
12   exit 0
```

Task 3

```bash
1    #!/bin/bash
2
3    # Using the command line, create a directory named test2
4    # Write a script named fmaker2.sh that prompts the user to provide a name for a directory_
5        # _to be created in the current working directory, and then creates that directory if it does not already exist
6    # If the directory already exists, then print a message that informs the user of this and then exits the script
7    # If the directory does not exist, then create it and print a message that informs the user it has been created_
8        # _and then exit the script
9    # Test your script by first entering the existing directory, i.e. test2, and then a directory_
10   # _that has not yet been created, e.g. test3
11
12   read -p 'Enter the name of the directory you want created: ' dirname
13
14   if [ -d $dirname ]; then
15       echo "Directory already exists"
16   else
17       mkdir $dirname
18       echo "The $dirname directory has been created"
19   fi
20
21   exit 0
```

Task 4

```bash
1    #!/bin/bash
2
3    # Write a script named calcbonus.sh that determines the bonus applicable in dollars to a commission earned,_
4        # _as shown below:
5            # <=200 No bonus applicable
6            # <=300 Fifty dollar bonus applicable
7            # >300  One hundred dollar bonus applicable
8    # When the script is run, it will begin by prompting the user for this commission amount
9    # The correct bonus applicable should be stored as an integer in a variable named bonus
10   # Print a message to the screen that tells the user what bonus is applicable to the commission entered
11
12   bonus=0
13
14   read -p 'Enter the commission earned: ' comm
15
16   if [ $comm -le 200 ]; then
17       echo "No bonus applicable"
18   elif [ $comm -le 300 ]; then
19       bonus=50
20       echo "The bonus applicable is $bonus dollars"
21   else
22       bonus=100
23       echo "The bonus applicable is $bonus dollars"
24   fi
25
26   exit 0
```

Task 5

```bash
1    #!/bin/bash
2
3    declare -a vals
4    vals=(3.05 4.12 6.34)
5
6    # OPTION 1: echo the array values into awk/printf
7    sum2=$( echo ${vals[0]} ${vals[1]} ${vals[2]} | awk '{ printf "%.2f", $1+$2+$3 }' )
8
9    # OPTION 2: pass desired scale and expression into the bash calculator (bc)
10
11   sum3=$( echo 'scale=2;'"${vals[0]} + ${vals[1]} + ${vals[2]}" | bc -l )
12
13   echo "The awk calculated sum of ${vals[0]} and ${vals[1]} and ${vals[2]} is $sum2"
14
15   echo "The bc calculated sum of ${vals[0]} and ${vals[1]} and ${vals[2]} is $sum3"
16
17   exit 0
```