Activity 3:

1. Write a script called mycase, using the case utility to checks the type of character entered by a user:

a. Upper Case.

b. Lower Case.

c. Number.

d. Nothing.

```
case "$char" in
  ([[:lower:]]) echo lowercase letter;;

  ([[:upper:]]) echo uppercase letter;;

  ([[:digit:]]) echo decimal digit;;

  (*) echo nothing;;

esac
```

2. Enhanced the previous script, by checking the type of string entered by a user:

a. Upper Cases.

b. Lower Cases.

c. Numbers.

d. Mix. (Upper and lower cases)

e. Nothing.

```
#!/bin/bash

echo "enter a character "
read char

case "$char" in
   +([A-Z]) )  echo uppercase letter;;
   +([a-z]) ) echo lowercase letter;;
   +([A-Za-z]) ) echo Mix;;

   +([0-9]) )  echo digit;;

  (*) echo nothing;;



esac
~
```

3. Enhanced the previous script, by checking the type of string entered by a user:
a. Upper Cases.

b. Lower Cases.

c. Numbers.

d. Mix. (Upper and lower cases, numbers)

e. Nothing.

```
#!/bin/bash

echo “enter a character ”
read char

case "$char" in
   +([A-Z]) )  echo uppercase letter;;
   +([a-z]) ) echo lowercase letter;;

   +([0-9]) )  echo digit;;
   +([A-Za-z0-9]) ) echo Mix letters and nums;;
  (*) echo nothing;;



esac
```

4. Design a script that accept 3 arguments (option [-i, -c, -d], word, file) based on the option if it:
-i: print the lines that contain the given word.
-c: print the number of matched given word.
-d: print the file after deleting the lines that contain the given word.

5. Write a script called myfruit, using the case and select utility to list fruit option (apple, banana and kiwi):

- if select apple option, list another three options for me (red, yellow, green) and after selection return to first list.
- if select banana option, list another two options for me (yellow, green) and after selection return to first list.
- Break the script when select quit option

```
#!/bin/bash
select choice in apple banana kiwi quit
do
case "$choice" in
  "apple")
      select c in red yellow green
      do
      echo "choose anothe fruit or quit"
       break
      done ;;
   "banana")
      select c in yellow green
      do
       echo "choose anothe fruit or quit"
       break
      done ;;
  "kiwi")
      echo "choose another fruit or quit ;;
  "quit")
      break ;;
    *)
      echo “your answer is out of scope ;;
esac
done
```

6. Design a script using the case and select utility to list some countries and when we select a country it print the language of that country.

```
#!/bin/bash
select choice in egypt usa china quit
do
case $choice in
  egypt)
     echo "the country language is Arabic" ;;
   usa)
     echo "the country language is English ;;
   china)
      echo "the country language is Chinese ;;
   quit)
     break ;;
esac
done
```

7. Create a Bash script which will take 2 numbers as command line arguments. It will print to the screen the larger of the two numbers.

```
#!/bin/bash

a=$1
b=$2

if (( a > b ))
   then
      echo  "$a"
   else
      echo "$b"
fi
```

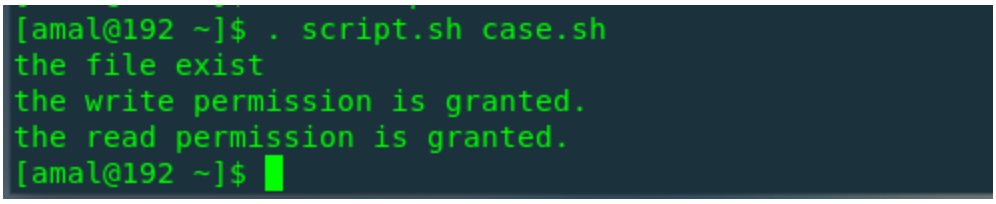
8. Create a Bash script which will accept a file as a command line argument and analysis it in certain ways. e.g. you could check if the file is executable or writable. You should print a certain message if true and another if false.

```
#!/bin/bash

filename="$1"

if [ -e "$filename" ]
  then
     echo "the file exist"
     if [ -w $filename ]
       then
          echo "the write permission is granted."
     fi
     if [ -x $filename ]
           then
             echo "the excute permission is granted."
      fi
      if [ -r $filename ]
           then
             echo "the read permission is granted."

      fi
else
   echo "the file not exist"
fi
```



9. Create a Bash script which will print a message based upon which day of the week it is (e.g. 'Happy weekend day' for Friday and Saturday).

```
#! /bin/bash

case $(date +%a) in

  Mon) echo Good Monday!;;

  Tue) echo Good Thusday;;

  Wed) echo Good wensday!;;

  Thu) echo Good Thursday;;

  (Sat|Fri) echo 'Happy weekend day';;

  Sun) echo Good Sunday;;

esac
```