Activity 1:

1. Create a script that asks for user name then send a greeting to him.

```
#! /bin/bash
echo "please enter your name "
read name
echo "you are welcome $name"
```

2. Create a script called s1 that calls another script s2 where:

   a. In s1 there is a variable called x, it's value 5

```
#! /bin/bash
x=5
export x
. s2.sh
```

   b. Try to print the value of x in s2 .

```
#! /bin/bash
echo "you enter the value of x is $x"
```

3. Create a script called mycp where:

   a. It copies a file from directory to another

```
#! /bin/bash
cp -r file1.txt /home/ahmed/Desktop/
```

   b. It copies multiple files from directory to another.

```
#! /bin/bash
cp -r /home/ahmed/  /home/ahmed/Desktop/
```

4. Create a script called mycd where it change directory to the given argument directory.

```
#! /bin/bash
echo "please enter your directory you want to change"
read dir
cd $dir
```

5. Create a script called myls where it lists the given argument directory.

```
#! /bin/bash
echo "please enter your directory you want to change"
read dir
ls -l /$dir
```

6. Create a script to get number from user and add 1 to it and print it.

```
#! /bin/bash
echo "please enter number"
read x
echo "number added 1 on it is $(( x+1 ))"
```

7. Design script to print the current logged in user

```
#! /bin/bash
echo "logged user is $USER"
```

8. Design script to print content of file /etc/password

```
#! /bin/bash
head /etc/passwd
```

9. Script to sort content of file /etc/passwd based on the user id

```
#! /bin/bash
head /etc/passwd > op1.txt | sort -k 3n op1.txt
```

10. Script to sort content of file /etc/passwd based on user name alphabet

```
#! /bin/bash
head /etc/passwd > op1.txt | sort -k 1n op1.txt
```

11. Script to sort all integer input argument from high to low

```
#! /bin/bash
array="$@"
echo " array before sorting is : $array"
echo " array after sorting is : "
echo  $array | fmt -s -w 1 | sort -n
```