

1.

```
#!/bin/bash

read -p "Enter the size of array: " size

echo "Enter $size elements: "

for((i=0;i<size;i++))
do
    read arr[$i]
done

echo "Contents of array"
for((i=0;i<size;i++))
do
    echo ${arr[$i]}
done
```

```
$ bash 1.sh
Enter the size of array: 5
Enter 5 elements:
41
43
45
42
76
Contents of array
41
43
45
42
76
```

2.

```
#!/bin/bash

echo "Declare Arrays"
declare -a arr_dec

arr_dec[0]='Titanic'
arr_dec[1]='Interstellar'
arr_dec[2]='Conjuring'

echo ${arr_dec[@]}
```

```
$ bash 2.sh
Declare Arrays
Titanic Interstellar Conjuring
```

3.

```
#!/bin/bash

arr=(Hulk Amar 100 Akbar Anthony)
echo ${arr[@]}
echo ${arr[*]}
echo ${arr[@]:0}
echo ${arr[*]:0}
echo "First element"
echo ${arr[0]}
echo ${arr}
echo "Specific element"
echo "Fourth element is ${arr[3]}"
echo "Second element is ${arr[1]}"
```

```
$ bash 3.sh
Hulk Amar 100 Akbar Anthony
Hulk Amar 100 Akbar Anthony
Hulk Amar 100 Akbar Anthony
Hulk Amar 100 Akbar Anthony
First element
Hulk
Hulk
Specific element
Fourth element is Akbar
Second element is Amar
```

4.

```
echo "Specific element"
echo "Fourth element is ${arr[3]}"
echo "Second element is ${arr[1]}"

echo "Elements at specific index"
echo ${arr[@]:0}
echo ${arr[@]:1}
echo ${arr[@]:2}
echo ${arr[0]:1}
echo ${arr[0]:2}
echo ${arr[@]:1:4}
echo ${arr[@]:2:3}
echo ${arr[@]:1:3}

echo "size of array"
echo ${#arr[@]}
echo ${#arr[*]}

echo "Length of element"
echo ${#arr[0]}
echo ${#arr}
```

```
$ bash 4.sh
Hulk Amar 100 Akbar Anthony
Hulk Amar 100 Akbar Anthony
Hulk Amar 100 Akbar Anthony
Hulk Amar 100 Akbar Anthony
First element
Hulk
Hulk
Specific element
Fourth element is Akbar
Second element is Amar
Elements at specific index
Hulk Amar 100 Akbar Anthony
Amar 100 Akbar Anthony
100 Akbar Anthony
ulk
lk
Amar 100 Akbar Anthony
100 Akbar Anthony
Amar 100 Akbar
size of array
5
5
Length of element
4
4
```

5.

```
#!/bin/bash

retfunc()
{
    echo "This is retfunc()"
    return 1
}

exitfunc()
{
    echo "This is exitfunc()"
    exit 1
}

retfunc
echo "We are still here"
exitfunc
echo "We will never see this"
```

```
$ bash 5.sh
This is retfunc()
We are still here
This is exitfunc()
```

6.

```
#!/bin/bash

number_one()
{
    echo "This is the functions speaking..."
    number_two
}

number_two()
{
    echo "This is now the second function speaking..."
}
```

```
$ bash 6.sh
This is the functions speaking...
This is now the second function speaking...
```

7.

```
#!/bin/bash

x='A'
y='B'
my_function()
{
    local x='C'
    y='D'
    echo "Inside function: x: $x, y: $y "
}

echo "Before executing function: x: $x, y: $y "
my_function
echo "After executing function: x: $x, y: $y "
```

```
$ bash 7.sh
Before executing function: x: A, y: B
Inside function: x: C, y: D
After executing function: x: A, y: D
```

8.

```
#!/bin/bash

declare -A arr_A
arr_A[a]="Thriller"
arr_A[b]="Horror"
arr_A+=([c]="Fantasy"[d]="Crime")
echo ${arr_A[@]}
```

```
$ bash 8.sh
Fantasy[d]=Crime Horror Thriller
```

9.

```
#!/bin/bash

Hello()
{
    echo "Hellow World $1 $2"
}
```

```
Hello Om Kadam
```

```
$ bash 9.sh
Hellow World Om Kadam
```