1.

#!/bin/bash

array=(1 2 3 4 5 6 7 8 9 0)

for (( n=0; n<10; n++ ))

do

echo ${array[n]}

value=${array[n]}

echo $value

((value++))

echo " My Value is" $value

if [ $(( value % 2 )) -eq 0 ]; then

printf '%s\n' "Number $value is Even"

else

printf '%s\n' "Number $value is Odd"

fi

done

for i in ${array[@]}

do

echo $i

done

2.

#!/bin/bash

array=(1 2 3 4 5 6 7 8 9 0)

for (( n=0; n<10; n++ ))

do

echo ${array[n]}

value=${array[n]}

echo $value

((value++))

echo " My Value is" $value

if [ $(( value % 2 )) == 0 ]; then

printf '%s\n' "Number $value is Even"

else

printf '%s\n' "Number $value is Odd"

fi

done

for i in ${array[@]}

do

echo $((i+1))

done

3.

#!/bin/bash

arrayblank=()

array=(1 2 3 4 5 6 7 8 9 0)

echo ${array[@]}

echo ${#array[@]}

unset array[1]

echo ${array[@]}

echo ${array[@]:1:3}

echo ${array[5]}

counter=0

counter1=0

array[$counter]=5

array[$counter]=$counter1

array[$counter]=$((counter1+2))

echo ${array[@]}

4.

#!/bin/bash

count=0

while [ $count -le 10 ]

do

echo "$count"

count=$(( $count + 1 ))

done

5.

#!/bin/bash

count=5

until [ $count -le 0 ]

do

echo count: $count

((count=count-1))

done

#!/bin/bash

count=0

read n

while [ $n -gt 0 ]

do

echo "$count"

count=$(( $count + 1 ))

((n=n-1))

done

6.

#!/bin/bash

count=0

read n

while [ $n -gt 0 ]

do

echo "$count"

count=$(( $count + 1 ))

((n-=1))

done

7.

#!/bin/bash

count=0

array=()

read n

for (( i=0; i<n; i++ ))

do

read value

if (($value%2==0))

then

array[$i]=$value

fi

done

echo ${array[@]}