1. Write a script with few argument, the display all **special variables.**

```
Ans.
display_special_variables() {
  echo "Script name (\$0): $0"
  echo "Number of arguments (\$#): $#"
  echo "All arguments (\$*): $*"
  echo "All arguments (separately, \$@): $@"
  echo "Process ID of the script (\$$): $$"
  echo "Last command's exit status (\$?): $?"
  echo "Current shell options (\$-): $-"
  echo "Process ID of the last background command (\$!): $!"
  echo "Current line number (\$LINENO): $LINENO"
}
display_special_variables
if [ $# -gt 0 ]; then
  echo "Individual arguments:"
  for arg in "$@"; do
    echo "$arg"
  done
else
  echo "No arguments were provided."
fi
```

2. Write a shell script for if else, if ..elif ... else

```
if...else
echo "Enter a number:"
read number
if [$number -gt 0]; then
  echo "The number is positive."
else
  echo "The number is not positive."
fi
#!/bin/bash
read -p "Enter a number: " num
if [$num -gt 0]; then
echo "The number is positive."
elif [ $num -lt 0 ]; then
echo "The number is negative."
else
echo "The number is zero."
Fi
```

3. Write a shell script for until loop

```
count=0
until [ $count -gt 5 ]; do
  echo "Count: $count"
  ((count++))
done
echo "Loop finished."
```

4. Write a shell script to print array element using for loop

```
array=("apple" "banana" "cherry" "date")
echo "Array elements:"
for i in "${array[@]}"; do
echo "$i"
done
```