Write programs using shell scripting covering data types, conditional, and looping and decision statements.

**Title:** Write programs using shell scripting covering data types, conditional, and looping and decision statements.

**Description:**

A shell script is a computer program designed to be run by the Unix/Linux shell which could be one of the following:

• The Bourne Shell

• The C Shell

• The Korn Shell

• The GNU Bourne-Again Shell

A shell is a command-line interpreter and typical operations performed by shell scripts include file manipulation, program execution, and printing text.

**1. Basic Shell Scripting**

**Open editor and type below Code and save as test.sh**

#!/bin/sh

echo "What is your name?"

read PERSON

echo "Hello, $PERSON"

**Output:**

$./test.sh

What is your name?

Aritra Chatterjee

Hello, Aritra Chatterjee

$

**2. Using Arrays**

**Open editor and type below Code and save as test1.sh** #!/bin/sh

NAME[0]="Aritra"

NAME[1]="Akash"

NAME[2]="Avijit"

NAME[3]="Ayan"

NAME[4]="Dolly"

echo "First Index: ${NAME[0]}"

echo "Second Index: ${NAME[1]}"

**Output:**

$./test1.sh

First Index: Aritra

Second Index: Akash

**3. Using Decision Statement**

**Open editor and type below Code and save as test2.sh** #!/bin/sh

a=10

b=20

if [ $a == $b ]

then

echo "a is equal to b"

elif [ $a -gt $b ]

then

echo "a is greater than b"

elif [ $a -lt $b ]

then

echo "a is less than b"

else

echo "None of the condition met"

fi

**Output:**

$./test2.sh

a is less than b

**4. Looping Statement**

**Open editor and type below Code and save as test3.sh** for var in 0 1 2 3 4 5 6 7 8 9

do

echo $var

done

**Output:**

$./test3.sh

0

1

2

3

4

5

6

7

8

9

**5. Result**

We have successfully executed commands in Linux.