

Day 2

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CLASS	A	SUBJECT	LSS
ROLL NO.	21	DATE	01/04/22

Programming constructs

Bash shell system and constructs

1) The shbang line

The shbang line is the very first line of the script and tells the kernel know what shell will be interpreting the lines in the script.

It consists of `#!` followed by full path name

Example

`#!/bin/bash`

→ Comments

Comments are descriptive material preceded by a

`#` sign

Example

`# This is a comment`

→ Local variables

Local variables are in scope for the current shell variables when a script ends they are no longer available i.e they go out of the scope.

Local variables can be defined with built-in declare function

E.g. `variable_name = value`

`declare variable_name = value`

`name = "Basu"`

`x = 5`

→ Global variables

Global variables are called environment variables and are created with the export built-in command.

They are set for currently running shell and any process spawned from that shell.

The built-in declare function with the -x option also sets an environment variable and marks it for export.

Eg: `export VARIABLE_NAME=value`
`declare -x VARIABLE_NAME=value`
`export PATH=/bin:/usr/bin`

→ Extracting values from variables

To extract a value from variables a dollar sign (\$) is used.

Eg: `echo $variable_name`
`echo $name`
`echo $PATH`

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8.2 Looping and Conditional Statements

conditional statements

→ the if construct is followed by an expression enclosed in parentheses.
The operators are similar to C operator.

The then keyword is placed about the calling parenthesis.

An if must end with an end if.

i) if statement

This block will process if specified condition is true.

Syntax:

```
if [Expression]
then
    statement
fi
```

Example

```
a = 10
b = 20
if ($a == $b)
then
    echo "a equal to b"
fi
```

ii) if-else statement

If specified condition is not true in if part then else part will be executed.

Syntax:

```
if [Expression]
then
    statement 1
else
    statement 2
fi
```

Example

```
a = 20
b = 20
if [$a == $b]
then
    echo "a equal to b"
else
    echo "a is not equal to b"
```

ARUN'S

Adora