Lab-8

Thursday, October 15, 2020 1:32 PM

Aim: To execute looping conditions in LINUX

Date: 15-10-20

SOURCE CODE:

IF- ELSE CONDITION

```
acer@Shravani ~
$ num=50

acer@Shravani ~
$ if [[ 4num -eq 50 ]] ; then echo 'Number is 50'; else echo 'Wrong Number'; fi
-bash: [[: 4num: value too great for base (error token is "4num")
Wrong Number

acer@Shravani ~
$ ^C
-bash: $'\003': command not found

acer@Shravani ~
$ if [[ num -eq 50 ]]
> then
> echo 'Number is 50'
> else
> echo 'Wrong Number'
> fi
Number is 50

acer@Shravani ~
$ num=50

acer@Shravani ~
$ if [[ num -eq 50 ]]; then echo 'Number is 50'; else echo 'Wrong Number'; fi
Number is 50
```

FOR LOOP

```
acer@Shravani ~
$ for i in 1 2 3 4
> do
> echo "Loop executing right now is number $i"
> done
Loop executing right now is number 1
Loop executing right now is number 2
Loop executing right now is number 3
Loop executing right now is number 4
```

DO- WHILE LOOP

```
acer@Shravani ~
$ while [ "$INPUT_STRING" != "bye" ]
> do
> echo "Please type something (bye to quit)"
> read INPUT_STRING
> echo "You typed: $INPUT_STRING"
> done
Please type something (bye to quit)
SHRAVANI
You typed: SHRAVANI
Please type something (bye to quit)
bye
You typed: bye
```

EXECUTING C Programs

```
acer@Shravani ~
$ pwd
/home/acer

acer@Shravani ~
$ cd

acer@Shravani ~
$ ls
lab7.txt  linlab3.c  linlab3.exe  newdir1

acer@Shravani ~
$ gcc linlab3.c -o linlab3

acer@Shravani ~
$ ./linlab3
Hello WorldName: ShravaniPRN:17070123120
acer@Shravani ~
$ touch if_120.c

acer@Shravani ~
$ touch for_120.c

acer@Shravani ~
$ touch while_120.c
```

Created 4 C files for each loop

C File 1: To print basic Print commands

linlab3.c

```c
#include<stdio.h>
int main(){
printf("Hello World");
printf("Name: Shravani");
printf("PRN:17070123120");

}

```

C File 2: For execution of If else loop

if_120.c

```c
#include<stdio.h>
int main(){
    int a=2;
    if (a<2){
        printf("a is less than 2");
    }
    else {
        printf("a is equal to 2");
    }
}
```

C File 3: For execution of For loop

 linlab3.c 1 2 3 4 5 6 7 8 9 for_120.c while_120.c }#include<stdio.h> int main(){ int i; for(i=e; i<5; i++){ printf("This is loop number= , i), printf(" ") ;

C File 4: For execution of While loop

 linlab3.c 1 2 3 4 5 6 7 8 9 10 11 12 for_120.c while_120.c int main(){ char a[]="Shravani"; double b=1707e123120; int c=l; while(c>e){ printf("Name: ,a); printf(" ") ; printf("PRN: %lf" , b) c--;

Running C programs:


acer@Shravani ls for 120. c if 120. c acer@Shravani gcc if _ 120. c -o if lab7. txt lin1ab3. c lin1ab3. exe newdirl while 120. c acer@Shravani . / if _120 a is equal to 2 acer@Shravani gcc for _ 120. c acer@Shravani $. /for_12ø -o for 120 This is loop number This is loop number This is loop number This is loop number This is loop number acer@Shravani gcc while 120. c -o acer@Shravani . /whi1e_12ø Name: Shravani 1 2 3 4 while 120 PRN: 17070123120.ØØØØØØ acer@Shravani

Inference : In this lab experiment we installed gcc to our cygwin software we used touch command to create 4 c files in the directory. And coded in C program and used "gcc name.c -o name" Command to execute the C file and ./name to run the program in Linus environment.