

**SET-224 /CET-225**

**Operating Systems LAB # 04**

**LAB Title**

Focusingon theusageof Test Commandsand ConditionalStatements.

**Assessment of CLO: 04, PLO: 03**

|  |  |  |  |
| --- | --- | --- | --- |
| Student Name: |  | | |
| Roll No. |  | | |
| Semester |  | Session |  |

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| --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Perf. Level**  **Criteria** | **Excellent (2.5)** | **Good (2)** | **Satisfactory (1.5)** | **Needs Improvement (0 ~ 1)** | **Marks Obtained** |
| **1** | Project Execution & Implementation | Fully functional, optimized, and well-structured. | Minor errors, mostly functional. | Some errors, requires guidance. | Major errors, non-functional, or not  Performed. |  |
| **2** | Results & Debugging Or  Troubleshooting | Accurate results with effective debugging  Or Troubleshooting. | Mostly correct, some debugging Or Troubleshooting needed. | Partial results, minimal debugging  Or Troubleshooting. | Incorrect results, no debugging Or Troubleshooting, or not attempted. |  |
| **3** | Problem- Solving & Adaptability (VIVA) | Creative approach, efficiently solves challenges. | Adapts well, minor struggles. | Some adaptability, needs guidance. | Lacks innovation or no innovation, unable to solve  problems. |  |
| **4** | Report Quality & Documentation | Clear, structured, with detailed visuals. | Mostly clear, minor gaps. | Some clarity issues, missing details. | Poorly structured, lacks  clarity, or not submitted. |  |
| **Total Marks Obtained Out of 10** | | | | | |  |

**Experiment evaluated by**

|  |  |  |  |
| --- | --- | --- | --- |
| Instructor’s Name | Engr.Bushra Aziz | | |
| Date |  | Signature |  |

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**Objective:** To learn the usage of different types of operators and conditional statements.

# Exercise:

1. What test command should be used to test that /usr/bin is a directory or a symbolic link?

Ans:



1. Write a script that takes two strings as input compares them and depending upon the results of the comparison prints the results.

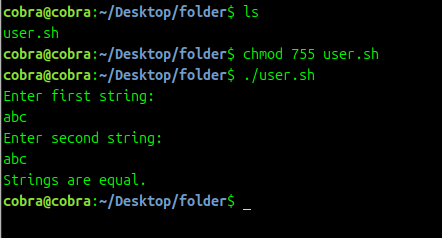
*The user may provide input to the Bash script using:*

*read var*

*Ans: user.sh*

|  |
| --- |
| *#!/bin/bash*  *echo "Enter first string: "*  *read str1*  *echo "Enter second string: "*  *read str2*  *if [ "$str1" = "$str2" ]; then*  *echo "Strings are equal."*  *else*  *echo "Strings are not equal."*  *fi* |

*Output:*

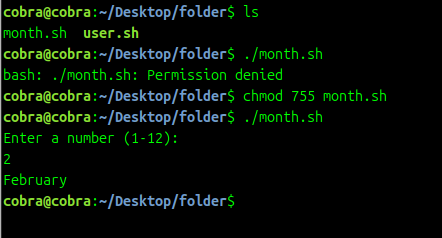


1. Write a script that takes a number (parameter) from 1-12 as input and uses case to display the name of corresponding month.

Ans:

Month.sh

|  |
| --- |
| #!/bin/bash  echo "Enter a number (1-12): "  read num  case $num in  1) echo "January" ;;  2) echo "February" ;;  3) echo "March" ;;  4) echo "April" ;;  5) echo "May" ;;  6) echo "June" ;;  7) echo "July" ;;  8) echo "August" ;;  9) echo "September" ;;  10) echo "October" ;;  11) echo "November" ;;  12) echo "December" ;;  \*) echo "Invalid input. Please enter a number between 1 and 12." ;;  esac |



1. Write a script that takes command-line argument for age and marks , and decide whether student is eligible for admission or not.

# Eligibility Criteria:

Age should be lesser than 18 and marks should be greater than 700

Ans:

Age.sh

|  |
| --- |
| #!/bin/bash  if [ $# -ne 2 ]; then  echo "Usage: $0 <age> <marks>"  exit 1  fi  age=$1  marks=$2  if [ "$age" -lt 18 ] && [ "$marks" -gt 700 ]; then  echo "Student is eligible for admission."  else  echo "Student is not eligible for admission."  fi |

Output:

