American International University-Bangladesh

Operating Systems

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| OBE Evaluation for CO3 | | | | |
| ***Apply various shell commands and system calls to implement Shell Scripts for various fundamental task automation.*** | | | | |
| Evaluation Rubric | | | | |
| Student ID:17-33936-1 | Problem Solution  (5) | Correctness  (5) | Efficiency  (5) | Total Obtained  Marks (15) |
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| Section: I |  |  |  |  |

Fall 2019-20

OBE Evaluation

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| 1. | Write a shell script that will take input of 2 numbers and performs arithmetic operation using function. The operation should also be input by the user.  #!/bin/bash  #bash Menu Script Example  PS3='Please Choose an Option: '  options=("Addition" "Subtraction" "Multiplication" "Division" "Quit")  echo "Type A: "  read a  echo "Type B: "  read b  select opt in "${options[@]}"  do  case $opt in  "Addition")  add=`expr $a+$b| bc`  echo "$add"  ;;  "Subtraction")  sub=`expr $a-$b| bc`  echo "$sub"  ;;  "Multiplication")  mul=`expr $a\*$b| bc`  echo "$mul"  ;;  "Division")  div=`expr $a/$b| bc`  echo "$div"  ;;  "Quit")  break  ;;  \*) echo "Invalid Option $REPLY";;  esac  done | 5 |
| 2. | Write a shell script to find out the length of an input string and output the string and length in a file.  #!/bin/bash  read s  STRLENGTH=$(echo -n $s | wc -m)  echo $STRLENGTH >> length\_str.txt  echo $s >> length\_str.txt | 5 |
| 3. | Write a shell script to find out the sum of series 1+2+3+………….n, where n is input by the user.  echo "Enter the number"  read n  sum=0  for ((i=1;i<=n;i++))  do  sum=`expr $sum + $i`  done  echo "Sum is $sum" | 5 |