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:15-30892-3 | 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  echo "Enter Two numbers : "  read a  read b  echo "Enter Choice :"  echo "1) +"  echo "2) -"  echo "3) \*"  echo "4) /"  read z  sum()  {  res=`echo $a + $b | bc`  echo "Result: $a "+" $b "=" $res "  }  sub()  {  res=`echo $a - $b | bc`  echo "Result: $a "-" $b "=" $res "  }  mul()  {  res=`echo $a \\* $b | bc`  echo "Result: $a "\*" $b "=" $res "  }  div()  {  res=`echo "scale=2; $a / $b" | bc`  echo "Result: $a "/" $b "=" $res "  }      case $z in  1)sum $a $b  ;;  2)  sub $a $b  ;;  3)mul $a $b  ;;  4)div $a $b  ;;  esac  3  echo "Enter Size(N)"  read N  i=1  sum=0  echo "Enter Numbers"  while [ $i -le $N ]  do  read num #get number  sum=$((sum + num)) #sum+=num  i=$((i + 1))  done  echo $sum | 5 |
| 2. | Write a shell script to find out the length of an input string and output the string and length in a file.  echo "Enter string "  read str  len=`echo $str | wc -c`  if [ $len -le 10 ]  then  echo "LEss then 10"else  echo "More than 10"  fi  echo "Length of string is " $len  ...................................  echo "Enter string "  read str;  length=`expr length "$str"`  echo " The length is" $length  tex= $length  echo $tex > Ans2.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 Size(N)"  read N  i=1  sum=0  echo "Enter Numbers"  while [ $i -le $N ]  do  read num #get number  sum=$((sum + num)) #sum+=num  i=$((i + 1))  done  echo $sum | 5 |