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**SE(4A) | 19F-0916**

Operating System Lab

Shell Scripting 2

**TASK # 1**

#part 1

if [ $1 -gt $2 ] && [ $1 -gt $3 ]

then

echo $1 is greater than others

elif [ $2 -gt $1 ] && [ $2 -gt $3 ]

then

echo $2 is greater then others

else

echo $3 is greater then others

fi

#part 2

case $4 in

Monday)

echo Work Day

;;

Tuesday)

echo Gym Day

;;

Wednesday)

echo Happy Day

;;

Thursday)

echo Cheat Day

;;

Friday)

echo Blessed Day

;;

Saturday)

echo Rest Day

;;

Sunday)

echo Fun Day

;;

\*)

echo Pata nahi kera Day

;;

Esac

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PART 1

PART 2

**TASK # 2**

**#part 1**

**check=1;**

**while [ $check -le 10 ]**

**do**

**if (( $check % 2 == 0 ))**

**then**

**echo $check is Even**

**else**

**echo $check is Odd**

**fi**

**(( check++ ))**

**done**

**#part 2**

**read -p 'Enter a Number for Addition :' Num**

**Add=0;**

**while [ $Num -gt 0 ]**

**do**

**Split=$(( $Num % 10 ))**

**Add=$(( $Add + $Split ))**

**Num=$(( $Num / 10 ))**

**done**

**echo Sum of the given number digit is $Add;**

PART 1

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PART 2

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**TASK # 3**

**#part 1**

**read -p 'Enter a Positive Number to check if it is Palindrome or not : ' Numb**

**revnum=0; #Use to store reversed Number**

**orinum=$Numb #Use to store Original Number**

**reverse()**

**{**

**while [ $Numb -gt 0 ]**

**do**

**Split=$(( $Numb % 10 ))**

**revnum=$(( $revnum \* 10 + $Split ))**

**Numb=$(( $Numb / 10 ))**

**done**

**}**

**Palindrome()**

**{**

**if [ $orinum -eq $revnum ]**

**then**

**echo Yipiii, Entered number is Palindrome**

**else**

**echo Alas, Entered number is Not Palindrome**

**fi**

**}**

**reverse**

**Palindrome**

**#part 2**

**read -p 'Enter a Positive Number to take its factorial : ' Number**

**Fact=1;**

**factorial()**

**{**

**if [ $1 -eq 1 ]**

**then**

**return 1**

**else**

**Fact=$(( $Fact \* $1 )) #Taking Factorial**

**dec=$(( $1 - 1 )) #For decremented value**

**factorial $dec; #Recursion call**

**fi**

**}**

**factorial $Number;**

**echo Factorial of Given Number is : $Fact**

PART 1

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ALL TASKS COLLECTIVE SCRIPT

#!/bin/bash

#Task 1 Decisions

#part 1

if [ $1 -gt $2 ] && [ $1 -gt $3 ]

then

echo $1 is greater than others

elif [ $2 -gt $1 ] && [ $2 -gt $3 ]

then

echo $2 is greater then others

else

echo $3 is greater then others

fi

#part 2

case $4 in

Monday)

echo Work Day

;;

Tuesday)

echo Gym Day

;;

Wednesday)

echo Happy Day

;;

Thursday)

echo Cheat Day

;;

Friday)

echo Blessed Day

;;

Saturday)

echo Rest Day

;;

Sunday)

echo Fun Day

;;

\*)

echo Pata nahi kera Day

;;

esac

#Task 1 Decisions ENDED

#------------------------------------------------------

#Task 2 Loops

#part 1

check=1;

while [ $check -le 10 ]

do

if (( $check % 2 == 0 ))

then

echo $check is Even

else

echo $check is Odd

fi

(( check++ ))

done

#part 2

read -p 'Enter a Number for Addition :' Num

Add=0;

while [ $Num -gt 0 ]

do

Split=$(( $Num % 10 ))

Add=$(( $Add + $Split ))

Num=$(( $Num / 10 ))

done

echo Sum of the given number digit is $Add;

#Task 2 Loops ENDED

#------------------------------------------------------

#Task 3 Functions

#part 1

read -p 'Enter a Positive Number to check if it is Palindrome or not : ' Numb

revnum=0; #Use to store reversed Number

orinum=$Numb #Use to store Original Number

reverse()

{

while [ $Numb -gt 0 ]

do

Split=$(( $Numb % 10 ))

revnum=$(( $revnum \* 10 + $Split ))

Numb=$(( $Numb / 10 ))

done

}

Palindrome()

{

if [ $orinum -eq $revnum ]

then

echo Yipiii, Entered number is Palindrome

else

echo Alas, Entered number is Not Palindrome

fi

}

reverse

Palindrome

#part 2

read -p 'Enter a Positive Number to take its factorial : ' Number

Fact=1;

factorial()

{

if [ $1 -eq 1 ]

then

return 1

else

Fact=$(( $Fact \* $1 )) #Taking Factorial

dec=$(( $1 - 1 )) #For decremented value

factorial $dec; #Recursion call

fi

}

factorial $Number;

echo Factorial of Given Number is : $Fact

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