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Linux Assignment

Q1) Greatest of 3 nos Greater than 3 nos

**Using and/or**

#!/bin/bash

# find greatest of 3 nos

echo "Enter 3 numbers"

read a b c

if [ $a -gt $b -a $a -gt $c ]

then

echo "$a is greater"

elif

[ $b -gt $c -a $b -gt $a ]

then

echo "$b is greater"

else

echo "$c is greater"

fi

**#using if**

#!/bin/bash

# find greatest number using if

echo "Enter 3 numbers"

read a b c

if [ $a -gt $b ]

then

if [ $a -gt $c ]

then

echo "$a is greater"

else

echo "$c is greater"

fi

else

if [ $b -gt $c ]

then

echo "$b is greater"

else

echo "$c is greater"

fi

fi

Q2) Factorial

Factorial of a number

#!/bin/bash

# Find factorial of a number

echo "Enter a number"

read a

fact=1

for((i=1;i<=a;i++))

do

fact=`expr $fact \\* $i`

done

echo "The factorial of $a is $fact"

**Q3) Multiplication Tables ing while,for,until**

#!/bin/bash

#Multiplicaton Tables

echo "Enter a number to print its multiplication table"

read a

n=1

while [ $n -le 10 ]

do

c=`expr $a \\* $n`

echo $c

n=$(( $n + 1 ))

done

#!/bin/bash

#Multiplicaton Tables

echo "Enter a number to print its multiplication table"

read a

t=10

for ((n=1;n<=t;n++))

do

c=`expr $a \\* $n`

echo $c

done

#!/bin/bash

#Multiplicaton Tables

echo "Enter a number to print its multiplication table"

read a

t=1

until [ $t -eq 11 ]

do

c=`expr $a \\* $t`

echo $c

t=$(($t + 1 ))

done

**Q4) Average of 4 given numbers**

#Average of 4 given numbers

a=22

b=26

c=20

d=28

sum=`expr $a + $b + $c + $d`

z=4

avg=`expr $sum / $z`

echo " The average of 4 given numbers is $avg"

**Q5) Odd, even**

#!/bin/bash

#To check whether ODD or EVEN

echo "Enter a number"

read a

c=`expr $a % 2`

if [ $c == 0 ]

then

echo "$a is even number"

else

echo "$a is odd number"

fi

**Q6 .a) print numbers from 20 to 10 using while**

#!/bin/bash

# To print numbers from 20 to 10 by while

a=20

while [ $a -ge 10 ]

do

echo $a

#a=$(($a-1))

#echo $a

a=`expr $a - 1`

done

b) print numbers from 20 to 10 using until

#!/bin/bash

# To print numbers from 20 to 10 by while

a=20

until [ $a -eq 9 ]

do

echo $a

a=`expr $a - 1`

done

**Q7) Grades**

#!/bin/bash

#Assigning grades

echo "Enter your marks"

read a

if [ $a -ge 80 -a $a -lt 100 ]

then

echo "Grade is Distinction"

elif [ $a -ge 61 -a $a -lt 80 ]

then

echo "Grade is First Class"

elif [ $a -ge 41 -a $a -lt 60 ]

then

echo "Grade is Second Class"

else

echo "Fail"

**Q8) Calculate salary taking basic/da/hra as inputs**

#!/bin/bash

# Calculate basic salary/da/hra as inputs

echo "Enter the salary"

read sal

echo "Enter the Daily Allowance"

read da

echo "Enter the House rent allowance"

read hra

total=`expr $sal + $da + $hra`

echo $total

Q9) Find sum of nos from 1 to n

#!/bin/bash

# Sum of nos from 1 to n

echo "Enter a number"

read a

sum=0

for((i=1;i<=a;i++))

do

sum=`expr $sum + $i`

done

echo "The sum of nos from 1 to $a is $sum"

Q10) Print ECHO command for “Hello World” using

\r \v \t \n

\r

echo -e “\r Hello World”

\v

echo -e “\v Hello World”

\t

echo -e “\t Hello World”

\n

echo -e “\n Hello World”