Code written in files are coloured green

Commands written in terminal are coloured red.

1.

#! /bin/bash

sum=0

count=0

echo “Enter the numbers separated by spaces: “

read -a nums

for num in “${nums[@]}”; do

if(( num % 2 == 0 )); then

sum=$(( sum + num ))

count=$(( count + 1 ))

fi

done

average=$(($sum / $count))

echo “Sum of even numbers: $sum”

echo “Average of even numbers: $average”

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2.

vi backup.sh

{

#! /bin/bash

cp -r /home/rushfp/Desktop/original/ /home/rushfp/backup\_files

}

chmod +x backup.sh

./backup.sh

#to verify the script works

crontab -e

0 2 \* \* \* /home/rushfp/backup.sh

# I’m not sure if the cron job code is considered part of a file or it’s a terminal code, hence no #colour

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3.

vi factorial.c

[

#include<stdio.h>

Int factorial(int x)

{

//for when x = 0, 0! is 1

if (x == 0)

return 1;

else

/\* This is where we use recursion.

We multiply the value of x by its value-1, over and over until x = 0 \*/

return x \* factorial(x-1);

}

int main()

{

int number;

printf (“Enter a number: “);

scanf (“%d”, &number);

printf (“Factorial of %d is %d.”, number, factorial(number));

printf (“\n”);

}

]

gcc -o Factorial factorial.c

./Factorial

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4.

5.

Sudo su

#enter root password

Sudo vi /etc/ssh/sshd\_config

#change port number to desired number, remove hashtag (otherwise it’s merely a comment)

semanage port -a -t ssh\_port\_t -p tcp 2002

#the above confirms the change with SELinux, which is running by default on CentOS

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