321 Lab assignment 2

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**1**. #!/usr/bin/env bash

result=0

for((i=1;i<=10;i++))

do

echo "Enter a Number: "

read number

if (( number % 2 == 0)) && (( number % 8 != 0))

then

(( result = result + number ))

fi

done

echo "result is: $result"

**2**. #!/bin/bash

read x

num=$x

y=0

for (( i=2; i <= $(echo "sqrt($a)" | bc); i=(( $i+1 )) ))

do

if [ $(( $x % $i )) -eq "0" ];

then y=$(( $b+1 ))

break

fi

done

if [ $y -gt 0 ];

then echo "Not a prime number "

else

result=$num

while [ $result -ne 1 -a $result -ne 4 ]; do

sum=0

remainder=0

while [ $num -gt 0 ]; do

remainder=$(( $num % 10 ))

sum=$(( $sum + $(( $rem\*$rem)) ))

num=$(( $num/10 ))

done

result=$sum

num=$sum

done

if [[ $result -eq 1 ]];

then echo $x "is a happy prime number"

else

echo $x "is an unhappy prime number"

fi

fi

**4**. #!/bin/bash

echo "Enter the first number:"

read num1

echo "Enter the second number:"

read num2

echo "Enter the third number:"

read num3

adder (){

add=$(($1+$2))

echo $add

}

subtract (){

sub=$(($1-$2))

echo $sub

}

multiplay (){

mul=$(($1\*$2))

echo $mul

}

if[[$num1 -gt $num2]];

then subtract $num1 $num2

fi

if[[$num3 -lt $num2]];

then adder $num2 $num3

fi

if[[$num3 -eq $num2]];

then multiply $num2 $num3

fi