**1.**

echo "Lab 1"

sum=0

echo "Enter Numbers"

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

do

read num

if (($num % 2==0 && $num % 8!=0)); then

sum=$((sum + num))

fi

done

echo "The sum is: "

echo $sum

**2.**

echo "Please enter a number"

read number

if (($number % 4!=0 && $number % 5!=0 &&$number % 10==0 )); then

echo "Rasengan"

elif (($number % 5==0 && $number % 6==0 )); then

echo "Rasen Shuriken"

elif (($number % 5==0 || $number % 6==0 )); then

echo "Oodama Rasengan"

else

echo "Invalid Rasengan"

fi

**3.**

echo "Enter a number:"

read x

prime() {

for((i=2; i<=x/2; i++))

do

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

then

echo "$x is not a Happy Prime."

exit

fi

done

echo "$x is a Happy Prime."

}

result=`prime $x`

echo "$result"

if [ $result == 1 ]; then

echo "$num is a happy number"

exit

fi

done

echo "$num is not a happy number"

**4.**

sub() {

echo $(( $a - $b ))

}

add() {

echo $(( $c + $b))

}

mul() {

echo $(( $b \* $c))

}

echo "Please enter a number"

read a

echo "Please another number"

read b

echo "Please another number"

read c

if [ $a -gt $b ];

then

Sub

#exit

elif [ $c -lt $b ];

then

add

#exit

elif [ $b -eq $c ];

then

mul

#exit

else

echo "not done"

fi

**5.**

echo "Enter number";

read n;

declare -a my\_array;

for ((i=0;i<n;i++))

do

read my\_array[$i];

done

for ((i=0;i<n;i++))

do

for((j=i+1;j<n;j++))

do

if((my\_array[i]>my\_array[j]))

then

temp=${my\_array[i]};

my\_array[$i]=${my\_array[j]};

my\_array[$j]=$temp;

fi

done

done

for((k=0;k<n;k++))

do

echo -e "Result : " ${my\_array[k]};

done