**1)**

sum=0

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

do

echo "enter a number:"

read num

if [[ ( $num%2 -eq 0 && $num%8 -ne 0 ) ]]

then

sum=$(( sum + num))

fi

done

echo $sum

**2)**

echo "enter a number:"

read num

if [[ ( $num%10 -eq 0 && $num%4 -ne 0 && $num%5 -ne 0) ]]

then

echo "Rasengan"

fi

if [[ ( $num/5 -eq 0 || $num/6 -eq 0 ) ]]

then

echo "Oodama Rasengan"

fi

if [[ ( $num%5 -eq 0 && $num%6 -eq 0 ) ]]

then

echo "Rasen Shuriken"

fi

**3)**

echo "enter a number"

read n

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

do

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

then

echo "$n is not a happy prime number"

exit

fi

done

echo "$n is a happy prime number"

**4)**

echo "enter 2nd number"

read b

echo "enter 3rd number"

read c

if [ $a -gt $b ]

then

sub=$(( a - b))

echo $sub

fi

if [ $c -lt $b ]

then

add=$(( c + b))

echo $add

fi

if [ $b -eq $c ]

then

mul=$(( c \* b))

echo $mul

fi

**5)**

$ declare -A arr

echo "enter array length"

read n

i=1

while [ $i -le $n ];

do

echo "enter number"

read arr[i]

i=$(( $i + 1 ))

done

i=1

j=0

while [ $i -le $n ];

do

m=$(($n - 1))

while [ $j -le $m ];

do

if [ ${arr[($j)]} > ${arr[$(($j + 1 ))]} ]

then

temp=${arr[($j)]}

arr[$j]=${arr[$(($j + 1 ))]}

arr[$(( $j + 1 ))]=$temp

fi

j=$(( $j + 1 ))

done

i=$(( $i + 1 ))

done

echo "Array in sorted order :"

echo ${arr[\*]}