**(1)**

echo “Enter num to find sum of digits”

read Num

g=$Num

s=0

while [ $Num -gt 0 ]

do

k=$(( $Num % 10 ))

Num=$(( $Num / 10 ))

echo ‘$k’

s=$(( $s + $k ))

done

echo "sum of digits of $g is : $s"

**(2)**

echo “Hello World”

**(3)**

sum=0

i=\"y\"

echo \" Enter one no.\"

read n1

echo \"Enter second no.\"

read n2

while [ $i = \"y\" ]

do

echo \"1.Addition\"

echo \"2.Subtraction\"

echo \"3.Multiplication\"

echo \"4.Division\"

echo \"Enter your choice\"

read ch

case $ch in

1)sum=\`expr $n1 + $n2\`

echo \"Sum =\"$sum;;

2)sum=\`expr $n1 - $n2\`

echo \"Sub = \"$sum;;

3)sum=\`expr $n1 \\\* $n2\`

echo \"Mul = \"$sum;;

4)sum=\`expr $n1 / $n2\`

echo \"Div = \"$sum;;

\*)echo \"Invalid choice\";;

esac

echo \"Do u want to continue ?\"

read i

if [ $i != \"y\" ]

then

exit

fi

done

**(4)**

echo -n "Enter numnber : "

read n

rem=$(( $n % 2 ))

if [ $rem -eq 0 ]

then

  echo "$n is even number"

else

  echo "$n is odd number"

fi

**(5)**

array={

a,

b,

aa,

ab,

ba,

bb

}

var=’ab’

for item in "${array[@]}"; do

[[ $var == "$item" ]] && echo "$var present in the array"

done