program 1
junk.sh

```
clear
for i in *
do
if [ -f $i]
then s= ls -l $i | cut -d Π -f5
if [ $s -eq 0 ]
then
echo "$i is Junk File"
rm-i $i
fi
fi
done
```

program 2
arithmatic.sh

```
echo enter 2 no
read a b
i=1
while true;
do
echo "1. Addition"
echo "2. Substraction"
echo "3.multiplication"
echo "4.division"
echo "5.exit"
echo enter choice
read ch
case $ch in
1)c=$(expr $a + $b)
echo add is $c
;;
2)c=$(expr $a - $b)
echo sub is $c
;;
3)c=$(expr $a'*' $b)
echo mul is $c
;;
4)c=$(expr $a / $b)
echo div is SC
;;
5)echo "exit"
exit 0;
esac
done
```

Program 3
Pallindrome

```
echo enter the number
read n
rev=0
temp=$n
while ($temp-gt 0]
do
rem expr $temp% 10
rev expr $rev** 10 + $rem
```

```
temp= expr $temp / 10
done
if [ $n -eq srev ]
then
echo number is palindrome
else
echo number is not palindrom
fi
```

Program 4
mcq

```
clear
echo Questions:
SC=0
echo "1: Which is the Capital of India?"
echo "Options:  a) Delhi b) Mumbai c) Nagpur d) Dhule"
read key
if test $key = "a"
then
echo "Your Answer Is Correct"
sc= expr $sc + 10'
else
echo "Your Answer Is Incorrect"
fi
echo "2: Which is the largest river in world?"
echo "Options: a) Ganga b) Yamuna c) Nile d) Panzra"
read key
if test $key = "c"
then
echo "your answer is correct"
Sc expr $sc + 10
else
echo "your answer is incorrect"
fi

echo "3: how many keywords in C language?"
echo "Options: a)40 b)32 c)33 d)34"
read key
if test $key = "b"
then
echo your answer is correct
sc='expr $sc + 10'
else
echo your answer is incorrect"
fi
if [ $sc-gt 0 ]
then
echo "congratulation"
echo "your score: $sc"
else
echo "Sorry"
echo "your score: $sc"
fi
```

program 5
delete

```
echo "dir"
```

```
echo "date"
echo "cls"
echo "md"
echo "exit"
while [1]
do
echo -e "C:\>"
read n
case $n in
dir) ls ;;
date)date;;
del) echo -e "\n\n Enter the file name you which want to delete
read fn
rm -i $fn
ls;;
cls)clear;;
md)echo -e "\n\n give new directory name
read d
mkdir $d
ls;;
exit)exit;;
*)echo entered wrong command
esac
done
```

program 6
summary

```
clear
echo "files with words <= 100 are" >> sumary
echo
for i in *
do
if [ -f $i]
then
words=’cat $i| wc –w’
if [ $words -le 100 ]
then
echo $i $words >> sumary
fi
fi
done
echo
echo "files with words > 100 & < 500 are" >> sumary
echo
for i in *
do
if [ -f $i]
then
words=’cat $i | wc –w’
 if ($words -gt 100 -a $words -lt 500 ]
then
echo
fi
fi
done
```

program 7
gcd

```
echo enter two num
```

```
read n1
read n2
while [ $n1 -gt $n2 ]
do
if [$n1 -gt $n2 ]
then
n1=`expr $n1 - $n2’
else
n2=`expr $n2 - $n1’
fi
done
echo gcd of given num is $n2
```

program 8
matrix

```
clear
echo "enter the element of matrix"
i=0
while [ $i -lt 9]
do
read mtx[i]
i='expr $i + 1`
done
echo "the given matrix is"
echo ${mtx[0]}""${mtx[1]}""${mtx[2]}
echo ${mtx[3]}""${mtx[4]}""${mtx[5]}
echo ${mtx[6]}""${mtx[7]}""${mtx[8]}
echo ""
rowl= expr ${mtx[0]} + ${mtx[1]} + ${mtx[2]}
row2=`expr ${mtx[3]} + ${mtx[4]} + ${mtx[5]}
row3= expr ${mtx[6]} + ${mtx[7]} + ${mtx[8]}
clm1=`expr ${mtx[0]} + $(mtx[3]} + ${mtx[6]}
clm2=`expr ${mtx[1]} + ${mtx[4]} + ${mtx[7]}
clm3='expr ${mtx[2]} + ${mtx[5]} + ${mtx[8]}
totalrow= ‘expr Srowl + $row2 + $row3’
totalclm= ’expr $clml + $clm2 + $clm3
echo "the addition of total row is:"
echo $totalrow
echo “the addition of total row is:”
echo $total clm
```

program 9
fibonanci series

```
echo "enter the nmu:”
read n
a=0
b=1
echo "fibo series:"
for((i=0;i<n;i++))
do
echo "$a"
fn=$((a+b))
a=$b
b=$fn
done
```

program 10
sum and average

```
sum=0
for i in $*
do
sum=’expr $sum + $i'
done
avg=‘expr $sum / $#’
echo the total sum is $sum
echo the total average is $avg
```

program 11
factorial

```
echo "enter the num
read n
fact=1
for((i=2;i<=n;i++))
{
      fact=$((fact*i))
}
echo $fact
```