**ROLL NO.: 06** 

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CLASS : AI-C BATCH : B2

```
1) Prime
GNU nano 7.2
                                             prime.sh
cho "Enter a number:"
read number
i=2
if [ $number -lt 2 ]
then
   echo "$number is not a prime number."
   exit
fi
while [ $i -lt $number ]
   if [ 'expr $number % $t' -eq 0 ]
    then
       echo "$number is not a prime number."
        exit
    fi
   i='expr $i + 1
done
cho "$number is a prime number."
rushi@rushi-81MV:-$ nano prime.sh
rushi@rushi-81MV:-$ bash prime.sh
Enter a number:
7 is a prime number.
rushi@rushi-81MV:-$ bash prime.sh
Enter a number:
8 is not a prime number.
rushi@rushi-81MV:-$
```

2) Palindrome

```
GNU nano 7.2
                                           palindrome.sh
cho "Enter a String : "
read input
reverse=""
len=${#i
for((i=$len-1; i>=0; i--))
do
        reverse="$reverse${input:$i:1}"
done
if [ $input == $reverse ]
then
        echo "$input is palindrome"
else
        echo "$input is not a palindrome"
fi
rushi@rushi-81MV: $ nano palindrome.sh
rushi@rushi-81MV: $ bash palindrome.sh
Enter a String:
racecar
racecar is palindrome
rushi@rushi-81MV:-$
```

3) Factorial

```
GNU nano 7.2
                                           factorial.sh
cho "Enter a number"
read num
fact=1
while [ $num -gt 1 ]
        fact=$((fact * num))
        num=$((num -1))
done
cho "Factorial of a given number is : "
rushi@rushi-81MV:-$ nano factorial.sh
rushi@rushi-81MV:-$ bash factorial.sh
Enter a number
Factorial of a given number is:
720
rushi@rushi-81MV:-$
```