**Hackerrank Challenge 1**

**Ans 1: Let's Echo**

echo "HELLO"

**Ans 2: Looping and Skipping**

read c

if [[($c == 'y') || ($c == 'Y')]]

then

echo "YES"

    else

    echo "NO"

fi

**Ans 3: A Personalized Echo**

read name

echo "Welcome $name"

**Ans 4: Looping with Numbers**

for i in {1..50}

do

echo $i

done

**Ans 5: The World of Numbers**

read X

read Y

echo $((X+Y))

echo $((X-Y))

echo $((X\*Y))

echo $((X/Y))

**Ans 6: Comparing Numbers**

read X

read Y

if (( $X > $Y ))

then

echo "X is greater than Y"

fi

if (( $X == $Y))

then

echo "X is equal to Y"

fi

if(( $X < $Y))

then

echo "X is less than Y"

fi

**Ans 7: Getting started with conditionals**

read word

if [[($word == 'y') || ($word == 'Y')]]

then

echo "YES"

elif [[($word == 'n') || ($word == 'N')]]

then

echo "NO"

fi

**Ans 8: More on Conditionals**

read x

read y

read z

if ((($x == $y) && ($y == $z)))

then

echo "EQUILATERAL"

elif ((($x == $y) || ($x == $z) || ($y == $z)))

then

echo "ISOSCELES"

else

echo "SCALENE"

fi

**Ans 9: Arithmetic Operations**

read x

printf "%.3f\n" `echo "$x" | bc -l`

**Ans 10: Compute the Average**

read num

ctr=$num

sum=0

while [ $ctr -gt 0 ]

do

read x

sum=$((sum + x))

ctr=$((ctr - 1))

done

printf "%.3f\n" `echo "$sum/$num" | bc -l`

**Hackerrank Challenge 2**

**Ans 1: Head of a Text File #1**

head -c 20

**Ans 2: Middle of a Text File**

head -22 | tail -11

**Ans 3: Tail of a Text File #2**

tail -c 20

**Ans 4: 'Tr' Command #3**

tr -s ' '

**Ans 5: Sort Command #4**

sort -n -r

**Ans 6: Sort Command #5**

sort -k2 -n -r -t$'\t'

**Ans 7:'Uniq' command #4**

uniq -u

**Ans 8: Read in an Array**

while read line

do

arr=(${arr[@]} $line)

done

echo ${arr[@]}

**Ans 9: Slice an Array**

arr=($(cat))

echo ${arr[@]:3:5}

**Ans 10: Filter an Array with Patterns**

arr=($(cat))

echo ${arr[@]/\*[aA]\*/}

**Ans 11: Concatenate an array with itself**

arr=($(cat))

arr=("${arr[@]}" "${arr[@]}" "${arr[@]}")

echo ${arr[@]}

**Ans 12: Count the number of elements in an Array**

arr=($(cat))

echo ${#arr[@]}

**Ans 13: Remove the First Capital Letter from Each Element**

arr=($(cat))

echo ${arr[@]/[A-Z]/.}

**Ans 14: 'Grep' - A**

grep -iwe "the\|that\|then\|those"

**Ans 15: 'Sed' command #5**

sed -E 's/([0-9]{4}) ([0-9]{4}) ([0-9]{4}) ([0-9]{4})/\4 \3 \2 \1 /g'

**Hackerrank Challenge 3**

**Ans 1: Sort Command #1**

sort

**Ans 2: Sort Command #2**

sort -r

**Ans 3: 'Uniq' Command #1**

uniq

**Ans 4: 'Uniq' Command #2**

uniq -c | cut -c7-

**Ans 5: Paste - 3**

paste -s

**Ans 6: Paste - 4**

paste - - -

**Ans 7: Lonely Integer - Bash**

read

arr=($(cat))

echo "${arr[@]}" | tr ' ' '\n' |sort | uniq -u | tr '\n' ' '