## 1. Write a program to print the special characters separately and print

number of Special characters in the line?

```
class HelloWorld {
     public static void main(String[] args) {
     String s=input.nextLine();
int len=s.length();
char a[]=new char[len];
int sp=0;
for(int i=0;i<len;i++)</pre>
{
 a[i]=s.charAt(i);
 if(a[i]>=65 && a[i]<=90 ||a[i]>=97 &&a[i]<=122
 || a[i]>=48 && a[i]<=57)
 {
 }
 else
 {
 sp++;
 System.out.print(a[i]);
 }
}
System.out.println("\u00e4n"+sp);
```

output:

```
java -cp /tmp/fDW6n4q4gn/HelloWorld
1
=== Code Execution Successful ===
2. Write a program to print all the composite numbers between a and b?
Sample Input:
A = 12
B = 19
Sample Output
14, 15, 16, 18
class HelloWorld {
    public static void main(String[] args) {
int a=12;
int b=19;
for(int i=a+1;i<=b;i++)
{
int c=0;
for(int j=1;j<=b;j++)
 if(i%j==0)
 C++;
}
if(c>2)
System.out.print(i+" ");
```

}

```
}
}
output:
14, 15, 16, 18
3. Write a program to print the Inverted Full Pyramid pattern?
lass HelloWorld {
    public static void main(String[] args) {
int n=5;
for(int i=n;i>=1;i--)
 for(int j=0;j<n-i;j++)
 {
 System.out.print(" ");
 }
 for(int k=1;k<=i;k++)
 {
 System.out.print(" *");
 System.out.println();
}
    }
}
output:
```

```
=== Code Execution Successful ===
```

4. Find the Mean, Median, Mode of the array of numbers?

```
Sample Input;:
Array of elements = {16, 18, 27, 16, 23, 21, 19}
class HelloWorld {
     public static void main(String[] args) {
int a[]={16,18,27,16,23,21,19};
int len=a.length;
int sum=0;
for(int i=0;i<len;i++)
{
 sum=sum+a[i];
int mean=sum/len;
System.out.println("mean: "+mean);
for(int i=0;i<len;i++)</pre>
{
 for(int j=i+1;j<len;j++)
 {
 if(a[i]>a[j])
 int temp=a[i];
```

```
a[i]=a[j];
 a[j]=temp;
 }
for(int i=0;i<len;i++)</pre>
{
 if(len%2==0)
 int mid=len/2;
 System.out.print("median: "+a[mid-1]);
 break;
 }
 else
 int mid=(len+1)/2;
 System.out.print(mid);
 System.out.println("median: "+a[mid-1]);
 break;
 }
}
for(int i=0;i<len;i++)</pre>
{
 for(int j=i+1;j<len;j++)
 {
 if(a[i]==a[j])
 System.out.println("mode: "+a[i]);
```

```
break;
 }}}
    }
}
output:
Mean = 20
Median = 19
Mode = 16
5. Find the factorial of n?
Sample Input:
N = 4
class HelloWorld {
    public static void main(String[] args) {
int n=6;
 int fact=1;
 for(int i=1;i<=n;i++)
 {
 fact=fact*i;
 System.out.print(fact);
    }
}
output:
```

=== Code Execution Successful ===