Sample Inputs and Expected Outputs for Programming Assignment 3

Sample input **binarian_message.txt**:

```
SoH Haup tera'nuv maHa 'abaD tlhInganA HuSD
#-0000:10:00010-----%^&*--111:010
'ea yuQ Xenu 'ea polagh of roj yong maHaDz 'u'
maHa yaj 'e' SoH 'abaD 'e law'D ral jeD qur
+ Hata 11001 poaD
Segh SoH HoH Hoc manga pIzba' vay meq jeD QaH
+ bav'Do 1011111
+ chuqD 100100 wovben
nuvDa HeghD 'baD Hegha maHa tlhap'D 'oH SIvaD'
maHaDzH 'baD tlhab maHaDz 'u' HuSD DuHa'D 'e qabDH
muta SoH parHa'Dgh 'baD 'ab law'aghD QIp jeD qalD
'baD waQaD' 'baD yInD SIvaD DuHa'D 'IHD'agh jeD
'IH yuQ maHaDz DujDagh luq tugh ghoS SoHDa yuQ jeD
muon SoH Sum Qo'D tob 'e' SoH 'abaD SIvaDagh machagh
vay'Dagh valz jeD luqD 'baD choHa nurDagh vaj maHa
luq Qaw' SoHDa Segh 'b QaQ
```

Expected output for mission 1:

```
you pathetic earthlings we are binarians from
the planet Xenu the keepers of peace in our universe
we understand that you are a very violent and greedy
race you kill each other without any reason and let
people starve to death we took it upon
ourselves to free our universe from such a disgusting
species you seem to be too stupid and barbaric
to deserve to live on such amazing and
beautiful planet our spaceship will soon approach your planet and
if you do not prove that you are at least
somewhat intelligent and willing to change until then we
will destroy your race for good
```

Expected output for mission 2:

```
Data about Binarian planet:
Distance from the Earth: 3.4058520000000003e+14 km
Planet temperature: 25.0 degrees Celsius
Orbital speed: 95.0 km/s
```

Sample input **peace_message.txt**:

Binarians, our fellow inhabitants of this universe, we greet you in peace.
It is very unfortunate that our first encounter
happened under such terrible circumstances. Although you have every right to
think that we are
nothing but a barbaric race which does not deserve this beautiful planet Earth,
we assure
you that we are much more than that. We wish
to prove you this
by first letting you know that we decrypted your transmission and learned some
interesting things
about your planet. You call it Xenu, but here on Earth we call it HD 85512 b.

Expected output for mission 3:

tlhInganA maHaDz rapar yInDar HuSDa 'e'a 'u' maHa SaHa SoH yong roj
'oH 'aba law'D Do'aD 'e' maHaDz wa'DIch ghoma
qaSeD yoya DuHa'D qabDHargh DuHbagh chutD SoH ghaj HochaD lugh 'baD Qub 'e'
maHa 'abaD
pagh 'a 'e qalD Segh 'IvaD Sums Qo'D waQaD' 'e'a 'IH yuQ tera' maHa vuSaD
SoH 'e' maHa 'abaD law'agh tInaD vajgh 'e' maHa neHDargh
'baD tob SoH 'e'a
pa'agh wa'DIch QaHaDgh SoH Sov 'e' maHa romaDagh SoHDa labargh jeD ghojeD vayaD
Daj DochaD
HuSDarg SoHDa yuQ SoH ponga 'oH Xenu 'a naDev SIvaD tera' maHa ponga 'oH HD
10100111000001000 b