ASSIGNMENT 5.1

Problem Statement 1:

Implement a Python program to generate all sentences where subject is in ["Americans", "Indians"] and verb is in ["Play", "watch"] and the object is in ["Baseball","cricket"].

subjects=["Americans ","Indians"]
verbs=["play","watch"]
objects=["Baseball","Cricket"]

Output should come as below:

Americans play Baseball.
Americans play Cricket.
Americans watch Baseball.
Americans watch Cricket.
Indians play Baseball.
Indians play Cricket.
Indians watch Baseball.
Indians watch Cricket.

CODE:

```
In [75]: def sub(s1,v1,o1):
             s=s1.split(' ')
             v=v1.split(' ')
             o=o1.split(' ')
             sl=len(s)
             vl=len(v)
             ol=len(o)
             for i in range (0,sl):
                 for x in range (0,vl):
                     for y in range (0,ol):
                         print(s[i],v[x],o[y],".")
         t=input("enter the subjects:")
         t1=input("enter the verbs:")
         t2=input("enter the objects:")
         print("OUTPUT:")
         sub(t,t1,t2)
```

OUTPUT:

```
enter the subjects:Americans Indians
enter the verbs:play watch
enter the objects:Baseball Cricket
OUTPUT:
Americans play Baseball .
Americans play Cricket .
Americans watch Baseball .
Americans watch Cricket .
Indians play Baseball .
Indians play Cricket .
Indians watch Baseball .
Indians watch Cricket .
```