```
class Vigenere {
      @Override
      public String encrypt(String plainText, String key) {
            StringBuilder cipherText= new StringBuilder();
            plainText = plainText.toUpperCase();
            StringBuilder plainText1 = new StringBuilder();
            for(int i=0;i<plainText.length();i++)</pre>
                  char ch = plainText.charAt(i);
                  if(ch>='A'&&ch<='Z')
                        plainText1.append(ch);
            }
            int j = 0;
            for(int i = 0;i<plainText1.length();i++)</pre>
                  char ch = plainText1.charAt(i);
                  cipherText.append((char)((ch-
'A'+(key.charAt(j++%key.length())-'A'))%26+'A'));
            return cipherText.toString(); }
      @Override
      public String decrypt(String cipherText, String key) {
            String cipherText2 = cipherText;
            StringBuilder plainText = new StringBuilder();
            int j = 0;
            for(int i =0;i<cipherText2.length();i++)</pre>
                  char ch = cipherText2.charAt(i);
                  if(ch>='A'&&ch<='Z')
                         plainText.append((char)((ch-
key.charAt(j++%key.length())+26)%26+'a'));
            }
            return plainText.toString();
      }
}
```

Key: HELLO

Output:

PLLOFLENSSKSYPCMXSZGLTYPITEETQZXZADLVDEVHXOPTLROFGMVZXHOIZFHLVLTFVYCPRMVZXA
FLLYRZGFEWJEYYCAIIAZHMYSCDMWTJLHESFVYRSHOMDAOYXSLRZMXAZFFPPBIPZHBVYEZTALPPO
YXSLBKXSPOPVESOAAPXORIOZKULPCSDEDPGJEATBNXSCCBKSEVLZPYHPREZHOILTFHFZGSPXMFF
ZXFAZPOPLTVYYEOPRTNFHAWPRIENVHVMEQCYXSPIWTPCOPVSFFAWLYRHWTEKLVPTHVSVRFLEEDW
WWQCCTXSPSKKPXMYIDAWYEEZFOEOQZVAYRCVHYPGZOYZKZASPFLQJNZVXSPGDICPHVVYTXBWEWO
FATEVTCWTDZGWZGLXZEVLLZWSHROTGPTAPRBRETZALPMZLIOTBNWEZDWIOJCBGLYWTERTBLRZEV
PRRDCJYCTCBWESWZLZWZVATYHOIRCOZWTHWSPDASHOZQWAMYLAPRFESALPDIUWSTBPRRTBASTEB
VXMCWSPTLBAPJMIAXSCCBKSXOYFWPRJPZFRZXSPDLENPHOIYZBJLLWOUGPEVLWPYGLSQDDHGPLB
KFCFGOMYRAFGSPSRXSPFVECTBNJZFBAETYCMSFCOYXTQWJMLWOPVDZCUMDAWLHXJFLWATFHXZCP
VFMTBNYALBKHZHBPRESSJYCCSUXSTUOEMZJLQJSSHHLYROMRSSYWETZSAPCSTEYJOPVDSWWWMFH
USZYSLZPCZVSVDCBXZQOPVDSWWWLYRPRLYMJEDPHOIJNCBPOYCALLGSWMNVSKQPFDALPCSPALDG
AVLYRLHESSZYYDVVRPLZPXEWSDEJOCDRESSZLLQHHROCSCILWSKXSPHVTXZGAVFYUVJESSSEOOS
YFFEWAALDVVTPWSZWECMPRRECYILNVPXTDVVYWOSPXSPFOEGPPLIYECZWPOIWERLWUFJEVLIDNO
WIZCSSWPSOCIQLZSIYTBHROOWLHTNCBPOZBSCWTSVRESSNVLDGZMAAWUKLYRZMAAWUKLYRMVZXH
PQPECAMXPUSEYNWUKLCCBROXS