**Alice = Client**

**Bob = Server**

**Test case 1:**

Graphical user interface, text

Description automatically generated

**Test case 2:**

In case we find Trudy on the other side will not send anything and just close the connection.

Change Bob’s exponent of d to 1 instead of -1, resulting in Alice not authenticating Bob.

Graphical user interface, text, application

Description automatically generatedText

Description automatically generated

a= 28760413973492264568443326309282912369174075988252481920528703615910922370022276451008857885079923907543183321174554731735650252702235590136613936063099325435854686138728022063260585868757351775720391491312184637381508017633350561697009578888978814058686449432050152773077768601526406183799835334610425321651817293450907184049968121649712141389119083223090482833224131293345632833017661446494905266956332247277746047481663044760867636640702853637099295999818025941160918552156349084680516218829033288275947599191796874716800215741595105588685870660535604146715463642002689715129125758354329494351047587993238897159757

b= 522209027908138309725294157316019045943999495665294846941057682285267305653801001558334128004472858116983899289633379128849654614655507126919615080329264145371399998199112324258593191475109897901137852676722563420153202113814041115662008234961615649201244858696474739521317865206511313337082035736044067685111124725072601061906694909764590648619072421552591332453015199675542872986461077201037598914256423273116301153671031513636886186613217606712082859201017987906939255155826837283590768874082559371967207096394702129600254462110897594368602183290765781183765070074687896418793104830451895630362799784766956264591

**Test case 3:**

Change Alice’s exponent of d to 1 instead of -1, resulting in Bob not authenticating Alice.

Graphical user interface, text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

a= 3489763559916904431463220842856897124033997030899290857226352443915757565303174348783608827465779822241221338786761131332862358319293273300681173299343390659633822316893573405744767233246003226504785617576349783704164756435679543966324433358384482709196653083777020923394441528175954619808542315327957423590353485206941885271331328592881778211726350183645833630405030841899607973849730361525964077352348496381649992981300729501871579416470468684624343987216905477118425139409856711853250121724544156762186720726587785215765396752408950893171461077363424025077288948214804516882718883567778110778651236616111522993417

b= 26721941453269297917771594558865284022702450801421422693546495650035995701229914120715880830841572124037753903777068011467587614060928957220513036078563231689437838575977002524822231392836541862250076538082639849154998914294066026167447874598196116300015642578557521362661658986356472928511708386690874784270175782357774350739739361470977567137625301664236567581251028362617435720307033791695080754741922662675949323316833499037927914871801595092558995707144697536889302490626573839162672472197035117819975295161990272035324859401992451179071656336966977053827481047327865114979760550175825424099835571392529829260260