AES analysis

No	Key	Text	Time
1	16 bit	8bytes	0.042s
2	16 bit	16bytes	0.045s
3	16 bit	32bytes	0.048s
4	16 bit	64bytes	0.053s
5	16 bit	128bytes	0.067s
6	16 bit	256bytes	0.115s
7	16 bit	512bytes	0.181s
8	16 bit	1024bytes	0.293s
9	16 bit	2048bytes	0.538s
10	16 bit	4096bytes	1.084s
No	Key	Text	Time
No 1	Key 8bit	Text 10240 bytes	Time 1.458s
1	8bit	10240 bytes	1.458s
1 2	8bit 16bit	10240 bytes 10240 bytes	1.458s 2.598s
1 2 3	8bit 16bit 32bit	10240 bytes 10240 bytes 10240 bytes	1.458s 2.598s 4.632s
1 2 3 4	8bit 16bit 32bit 64bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes	1.458s 2.598s 4.632s 8.821s
1 2 3 4 5	8bit 16bit 32bit 64bit 128bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes	1.458s 2.598s 4.632s 8.821s 16.921s
1 2 3 4 5 6	8bit 16bit 32bit 64bit 128bit 256bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes	1.458s 2.598s 4.632s 8.821s 16.921s 32.341s
1 2 3 4 5 6 7	8bit 16bit 32bit 64bit 128bit 256bit 512bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes	1.458s 2.598s 4.632s 8.821s 16.921s 32.341s 64.198s

DES analysis

No	Key	Text	Time
1	8 bit	8bytes	0.0049s
2	8 bit	16bytes	0.010117s
3	8 bit	32bytes	0.018633s
4	8 bit	64bytes	0.042616s
5	8 bit	128bytes	0.083023s
6	8 bit	256bytes	0.167183s
7	8 bit	512bytes	0.302422s
8	8 bit	1024bytes	0.622472s
9	8 bit	2048bytes	1.162953s
10	8 bit	4096bytes	2.359076s
No	Key	Text	Time
No 1	Key 8bit	Text 10240 bytes	Time 5.816466s
1	8bit	10240 bytes	5.816466s
1 2	8bit 16bit	10240 bytes 10240 bytes	5.816466s 10.812134s
1 2 3	8bit 16bit 32bit	10240 bytes 10240 bytes 10240 bytes	5.816466s 10.812134s 20.123136s
1 2 3 4	8bit 16bit 32bit 64bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes	5.816466s 10.812134s 20.123136s 39.812341s
1 2 3 4 5	8bit 16bit 32bit 64bit 128bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes	5.816466s 10.812134s 20.123136s 39.812341s 76.124451s
1 2 3 4 5 6	8bit 16bit 32bit 64bit 128bit 256bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes	5.816466s 10.812134s 20.123136s 39.812341s 76.124451s 150.113412s
1 2 3 4 5 6 7	8bit 16bit 32bit 64bit 128bit 256bit 512bit	10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes 10240 bytes	5.816466s 10.812134s 20.123136s 39.812341s 76.124451s 150.113412s 310.123165s

RSA analysis

No	Key_length	Message Length	Time
1	4 byte	2 bytes	0.027s
2	8 byte	4 bytes	0.034s
3	12 byte	6 bytes	0.067s
4	16 byte	8 bytes	0.127s
5	20 byte	10 bytes	0.217s
6	24 byte	12 bytes	1.712s
7	28 byte	14 bytes	30.027s
8	32 byte	16 bytes	160.123s
9	36 byte	18 bytes	250.342s
10	40 byte	20 bytes	1021.231s

Conclusion

- Change in single character of input shows drastic changes in output
- AES is the fastest amongst all
- RSA can be used for digital signature and for asymmetric encryption as well

