

Test Results					
No.	Main Code	Mutant Code	Result	Run Time(ms)	Executed test cases
1	H(q1); CNOT(q1, q2);	CNOT(q1, q2); H(q1);	killed	63	1
2	Z(qAlice)	Y(qAlice)	killed	71	1
3	Z(qAlice)	Y(qAlice)	not killed	76	10
4	Z(qAlice)	duplicate	killed	67	1
5	Z(qAlice)	duplicate	not killed	106	10
6	X(qAlice)	duplicate	not killed	62	10
7	if (message::Bit1) Z(qAlice);	deleted	killed	64	1
8	if (message::Bit1) Z(qAlice);	deleted	not killed	60	10
9	if (message::Bit2) X(qAlice);	deleted	killed	58	1
10	if (message::Bit2) X(qAlice);	deleted	not killed	61	10
11	MResetZ(qAlice) == One	MResetZ(qAlice) != One	killed	64	1
12	MResetZ(qBob) == One	MResetZ(qBob) != One	killed	58	1
13	MResetZ(qAlice) == One	MResetZ(qAlice) == Zero	killed	57	1
14	MResetZ(qBob) == One	MResetZ(qBob) == Zero	killed	61	1
15	ProtocolMessage(MResetZ(qAlice) == One, MResetZ(qBob) == One);	ProtocolMessage(MResetZ(qAlice) == Zero, MResetZ(qBob) == Zero);	killed	65	1
16	Entangle(qAlice, qBob)	Entangle(qBob,qAlice)	killed	61	1
17	Entangle(qAlice, qBob)	Entangle(qBob,qAlice)	not killed	63	10
18	DecodeMessage(q1, q2)	DecodeMessage(q2, q1)	not killed	65	10
19	Entangle(q1, q2); EncodeMessage(q1, message);	EncodeMessage(q1, message);Entangle(q1, q2);	killed	69	1
20	Entangle(q1, q2); EncodeMessage(q1, message);	EncodeMessage(q1, message);Entangle(q1, q2);	not killed	70	10
The mutation score was = 60		The average execution time = 66 (ms)			