ART BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 8bit	QAT BERT 8bit					
	CoLA	Matthew's corr.	58.48	56.74	58.48					
	MRPC QNLI	F1 Accuracy	90 90.3	87.88 89.34	89.56 90.62					
	QQP	FI	87.84	84.98	87.96					
	RTE	Accuracy	69.7	63.32	68.78					
	SST-2	Accuracy	92.36	91.04	92.24					
	STS-B SQuADv1.1	Pearson corr. F1	89.62 88.46	87.66 80.02	89.04 87.74					

MY RUN 1-2										
BERT-BASE-UNCASED	Dataset CoLA	Metric Matthew's corr.	BERT baseline accuracy 59.61	DQ BERT 8bit 55.28	SQ BERT 8bit 55.21	QAT BERT 8bit 57.78	QSin Bert 8 bit 58.29			
	MRPC QNLI	F1	89.08 91.72	81.22 89.84	81.22 88.43	89.12 89.88	89.59 90.07			
	QQP	Accuracy F1	87.91	86.75	86.95	87.49	87.70			
	RTE	Accuracy	66.06	61.37	60.64	67.78	67.87			
	SST-2	Accuracy	93.00	91.85	92.20	91.97	92.77			
	STS-B SQuADv1.1	Pearson corr. F1	89.36 88.22	84.96 83.85	85.59 83.67	89.89 86.84	89.58 86.15			
	3QUADVI.I	rı	00.22	63.63	63.07	00.04	80.10			
MY RUN ERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	
1	CoLA	Matthew's corr.	57.29	50.08	49.32	55.51	57.11	1	0.478069 0.552074	0.531249
								2 3	0.552074	0.569930 0.544265
								4	0.534564	0.534564
								5	0.534266	0.554397
								6	0.534067	0.571118
2	CoLA	Matthew's corr.	59.12	50.51	48.20	55.41	58.48	1	0.499220	0.578550
								3	0.502488 0.535847	0.569408 0.551091
								4	0.535647	0.551091
								5	0.554130	0.584819
								6	0.530497	0.555285
3	CoLA	Matthew's corr.	56.49	46.93	43.94	57.60	56.75	1	0.467371	0.530097
J	COLA	Wattiew's Corr.	30.43	40.00	45.54	37.00	30.73	2	0.534719	0.533220
								3	0.541772	0.531171
								4	0.542004	0.567573
								5 6	0.551796 0.576078	0.563783 0.541004
								-	0.370070	0.541004
4	CoLA	Matthew's corr.	61.37	50.24	48.53	56.60	57.07	1	0.545036	0.551277
								2	0.462617	0.539982
								3 4	0.536040 0.566035	0.566366 0.570780
								5	0.548436	0.570780
								6	0.545606	0.555020
5	CoLA	Matthew's corr.	57.92	47.20	44.96	56.30	57.01	1	0.485719	0.512872
								2	0.456500	0.545036
								3	0.502897	0.570138
								5	0.536115 0.521857	0.559896
								6	0.563049	0.552690
MY RUN										
BERT-BASE-UNCASED	Dataset SQuADv1.1	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit 86.66	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 b 85.79
1	SQuADV1.1	F1	88.01	71.50	72.55	86.88	86.66	1 2	86.27 86.26	86.66
								3	86.88	86.61
MY RUN BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 h
1	MRPC	F1	89.51	80.07	79.60	90.01	90.87	1	0.854545	0.908778
								2	0.900169	0.890845
								3 4	0.891938 0.884956	0.895833 0.897747
								5	0.884956	0.897747
								6	0.881533	0.886986
MY RUN	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	OSin Bort 4 0 L
BERT-BASE-UNCASED 2	MRPC	Metric F1	90.65	80.92	78.96	QAT BERT 4-8 bit 89.84	QSin Bert 4-8 bit 90.41	epoch 1	0.868613	0.901893
								2	0.882883	0.897133
								3	0.888147	0.904110
								4	0.891608	0.894472
								5	0.897260 0.898451	0.885017 0.901695
MY RUN BERT-BASE-UNCASED 3	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 b
	MRPC	F1	90.34	50.13	50.26	89.94	90.00	1	0.889667	0.897611
								2	0.896552	0.894366
								3 4	0.896435 0.899489	0.900000 0.899830
								5	0.899489	0.899830
								6	0.896552	0.894646
MY RUN BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 b
1	RTE	Accuracy	69.31	50.54	51.98	69.67	70.03	1	0.635379	0.678700
								2	0.671480	0.685921
								3 4	0.660650	0.667870 0.700361
								5	0.693141 0.678700	0.675090

MY RUN										
BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 b
2	RTE	Accuracy	65.34	47.29	47.29	66.42	66.06	1	0.599278	0.638989
								2	0.613718	0.649819
								3	0.617329	0.657040
								4	0.664260	0.649819
								5	0.638989	0.660650
								6	0.638989	0.635379
MY RUN										
BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 bit
3	RTE	Accuracy	64.62	47.29	47.29	67.07	67.14	1	0.631769	0.631769
								2	0.646209	0.649819
								3	0.653430	0.653430
								4	0.620939	0.664260
								5	0.670700	0.671480
								6	0.660650	0.660650
MY RUN										
BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 bit
1	STS-B	Pearson corr.	88.88	72.06	75.64	89.64	89.22	1	0.878468	0.876068
								2	0.881092	0.886109
								3	0.889583	0.888630
								4	0.891734	0.889244
								5	0.894423	0.890904
								6	0.896493	0.892214
BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 bit
2	STS-B	Pearson corr.	88.61	72.45	78.73	89.48	88.93	1	0.876287	0.879651
								2	0.880674	0.883062
								3	0.887597	0.885128
								4	0.891125	0.886460
								5	0.894325	0.886829
								6	0.894885	0.889336
BERT-BASE-UNCASED	Dataset	Metric	BERT baseline accuracy	DQ BERT 4-8 bit	SQ BERT 4-8 bit	QAT BERT 4-8 bit	QSin Bert 4-8 bit	epoch	QAT BERT 4-8 bit	QSin Bert 4-8 bit
3	STS-B	Pearson corr.	88.55	79.24	79.68	89.09	89.04	1	0.879557	0.874005
								2	0.879536	0.881382
								3	0.887080	0.884721
								4	0.886697	0.886590
								5	0.890952	0.886627
								6	0.890047	0.890415