Task 1

	Company	Domain
1.	ABM Egypt	NLP, Social Media analytics, Search Engine optimization
2.	Adam.ai	NLP, machine learning, embedded systems
3.	Advansy ESC	Embedded Software, Big data, IoT
4.	Affectiva	Machine learning, Deep learning, Computer vision, Speech(new project(s))
5.	Agolo	NLP, ML, DL
6.	Arqamfc	Analytics
7.	Ave labs	Deep learning, Machine learning techniques, Computer vision, Image Processing and Signal Processing, Control theory & Artificial Intelligence
8.	AvidBeam	Machine learning, OCR, Computer vision, DL
9.	Elves	Chatbots
10.	Bee Smart Payment Solutions	ML, Big Data
11.	Cequens	Predictive models, Machine Learning, Chatbots
12.	Cognitev	ML, DL, Recommendation systems, IR (Information Retrieval), NLP (Natural - Language Processing)
13.	Comiot	Iot, Computer vision, ML
14.	Crowd Analyzer	Big data, Machine learning, Social Media Analysis, Arabic in Social Media Analytics
15.	Data Gear BI	Data Mining, Business Intelligence(BI)
16.	El menus	Recommendation systems, NLP
17.	Heuro Labs	Artificial Intelligence, Cognitive Computing, Machine Learning, Big Data, Data Fusion and Data Mining
18.	IBM Egypt	NLP(Watson practice team), ML, DL
19.	Incorta	Robotics, computer vision
20.	InnoVision Systems	Robotics, computer vision
21.	Itworx	Big Data
22.	Knowledge officer	information retrieval and text summarization for articles on the web. Based mainly for many NLP and recommendation systems
23.	Mendel.ai	Artificial Intelligence in Medicine, Machine learning,

		OCR, NLP
24.	Microsoft ATLc	ML, DL, NLP, OCR, Speech, Search engines(Bing team)
25.	Optomatica	Machine Learning, AI and Optimization solutions, Analytics
26.	Oracle	Machine learning, Big data
27.	Orange	ML, Big Data, Data Analytics
28.	Pixellion	Image processing, Machine learning, Deep learning, Computer vision, image recognition in the retail industry
29.	Raisa Energy	ML, predictive modeling
30.	RDI	Machine learning, Deep learning, Arabic/English OCR, Search engines, Information retrieval, Arabic/English NLP and Arabic/English speech recognition/identification
31.	Rology	Computer Vision, Medical Image Processing, Machine Learning
32.	Sadeem®	IoT & Business Analytics
33.	Seeloz	Data analytics, ML
34.	Soho Square Solutions	IR (Information Retrieval), ML, NLP (Natural - Language Processing)
35.	Speakol	ML, DL, Big Data
36.	Sypron	Big Data, ML, DL, Computer vision, NLP, General AI apps
37.	Stratochem	Data analysis, Image processing, data mining
38.	Tactful	Conversational Agents, NLU, DL, Information Retrieval
39.	Tahrir news	Machine learning, Deep learning, NLP(Arabic & English)
40.	TA Telecom	Big Data
41.	Teradata	Big Data Analytics, machine learning and data mining
42.	The D. GmbH	NLP, Chatbots, Computer Vision, Video Analysis
43.	Tpay	Machine learning
44.	Usy tech	NLP
45.	Valeo	ML, DL, reinforcement learning, Computer vision, Autonomous driving
46.	Wego	Data analysis, machine learning, recommendation systems
47.	WideBot	Chatbots, NLP
48.	Wuzzuf	Machine learning, NLP(new project(s)), Search engines, Recommendation/Ranking systems and information retrieval
49.	Xtrava	Machine learning, Deep learning, Signal processing

50.	Yaoota!	Search engine, Big data, ML, NLP
51.	Vodafone	Big data, ML
52.	Wakeb Data	Business Intelligence, Data Analysis, Artificial Intelligence
53.	DilenyTech	Computer Vision
54.	Synapse Analytics	ML, Computer Vision
55.	Asas Alqarar	Machine Learning, Deep Learning
56.	Dell EMC	Machine Learning, Big Data
57.	360imaging	Computer Guided Surgery, Medical Imaging
58.	Fruitful Solutions	Deep Learning, Computer Vision
59.	Advanced Intelligent Technologies	Machine Learning, Deep Learning
60.	Digified	Machine Learning, Computer Vision
61.	iHub	Machine Learning
62.	Smart Medical Services	Machine Learning
63.	Okhtub	Machine Learning
64.	DevisionX	Deep Learning, Computer Vision
65.	ztechnium	Machine Learning, Recommendation Systems
66.	Lyra)	Machine Learning
67.	Cammedar Health	Machine Learning
68.	Botme	Chatbots, NLP
69.	Converted.in	Machine Learning
70.	MerQ	Chatbots, NLP
71.	Digisay	Machine Learning, Deep Learning
72.	Intouch	Machine Learning, Deep Learning
73.	Cassbana	Machine Learning, Deep Learning
74.	Pegasus	Data Analytics, BI
75.	Z2data	Data Analytics
76.	Dataplusme	Data Analytics, Data Science, Big Data Analytics, Data visualization
77.	3adda	Data Analytics, Business Intelligence
78.	Path Solutions	Big Data

79.	Ingram Micro	Data Science, Business Intelligence
80.	Scopic	Big Data
81.	TPay Mobile	Data Engineering, Data Analytics
82.	The Procter & Gamble	Data Science
83.	Henkel	Data Science, Business Intelligence
84.	Halan	Data Analysis, Business Intelligence, Data Science
85.	Mwasalat Misr	Data Analysis, Business Intelligence, Data Science
86.	Swvl	Data Analysis, Business Intelligence, Data Science
87.	Buseet	Data Analysis, Business Intelligence, Data Science
88.	Mawdoo3	Data Science, NLP
89.	Botitapp	Data Science, NLP
90.	Koinz	Data Analysis
91.	Brightskies	Machine Learning, Autonomous Driving
92.	DXWand	Machine Learning, text and speech analytics, NLP, analytics services
93.	MobiDev	AI apps
94.	Cyshield	Data Science
95.	Fixed Solutions	Data Science
96.	Nawy	Data Science, Business Intelligence
97.	Lenme	Machine Learning
98.	Atomica	Machine Learning, Computer Vision
99.	blnk.ai	Machine Learning
100.	Aimtechnologies	Data Science, Machine Learning
101.	SURE International Technology	Machine Learning, AI
102.	BBI-Consultancy	Data Science
103.	Tensorgraph	AI, Voice Recognition
104.	Etisalat	Machine Learning, Data Science

Task 2

انواع ال Errors فى البرمج

1- Syntax errors

هى الاخطاء اللغويه الناتجه من المبرمج عند كتابة الكود مثلا ان ينسى وضع (;)في بعض لغات البرمجه او يكتب كلمة محجوزه فى اللغه بطريقه خاطئه ككتابة c out

2-Semantic errors

هذا النوع يظهر بعد ظهور نتائج البرنامج ويكون رياضيا في اغلب الاحيان ، مثال لاعلي ذلك ايجاد معدل للطلاب و العلامات تكون بين 0 و 100 وبعد تنفيذ البرنامج كانت النتائج 125 مثلا ، هنا الخطا ربما ليس فى الكود بل في الادخال او العمليات الحسابيه ، ويتم تنفيذ الكود بحد ذاته دون ادني مشكله.

3-Logical errors

يسمى هذا النوع بRuntime errors هو الخطا الذى يظهر اثناء تنفيذ البرنامج ، وهو خطا منطقي مثلا: عمية حسابيه يكون فيها المقام صفر او ندخل قيمه متغييره سالبه

Task 3

PHP كانت فى الاصل مجموعه من التطبيقات التى كتبت باستخدام لغة Perl ، وهى تعرف بانها script Language صممت اساسا لتطوير وبرمجة تطبيقات الويب.

Task 4

من الامثله المشهوره لللغات التي تستخدم برامجها interpreter لعملية الترجمه هي لغات مثل: PHP, Python , Ruby, JavaScript

Task 5

انواع كتابة الكود

A **programming paradigm** is a style, or "way," of programming.

- **Imperative**: Programming with an explicit sequence of commands that update state.

- **Declarative**: Programming by specifying the result you want, not how to get it.

- **Structured**: Programming with clean, goto-free, nested control structures.

- **Procedural**: Imperative programming with procedure calls.

- **Functional** (Applicative): Programming with function calls that avoid any global state.

- **Function-Level** (Combinator): Programming with no variables at all.

- **Object-Oriented**: Programming by defining objects that send messages to each other. Objects have their own internal (encapsulated) state and public interfaces. Object orientation can be:

  - **Class-based**: Objects get state and behavior based on membership in a class.
  - **Prototype-based**: Objects get behavior from a prototype object.

- **Event-Driven**: Programming with emitters and listeners of asynchronous actions.

- **Flow-Driven**: Programming processes communicating with each other over predefined channels.

- **Logic** (Rule-based): Programming by specifying a set of facts and rules. An engine infers the answers to questions.

- **Constraint**: Programming by specifying a set of constraints. An engine finds the values that meet the constraints.

- **Aspect-Oriented**: Programming cross-cutting concerns applied transparently.

- **Reflective**: Programming by manipulating the program elements themselves.

- **Array**: Programming with powerful array operators that usually make loops unnecessary.