HOMEWORK 1			
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Student ID		11219280	
Class		DSEB 63	
Data 1			
1. Bài toán		Regression (Dự đoán giá nhà)	
2. Liệt kê	Input	Diện tích	
	Output	Giá nhà	
3. Dạng toán		Supervised	
Data 2			
1. Bài toán		Classification (Dự đoán/Xác định xem một khách hàng có phải "Target" hay không?)	
2. Liệt kê	Input	name_contract_type, code_gender, flag_own_car, flag_own_realty, cnt_children, amt_income_total, amt_credit, amt_annuity, amt_goods_price, name_type_suite, name_income_type, name_education_type, name_family_status, name_housing_type, region_population_relative, days_birth, days_employed, own_car_age, flag_mobil, flag_emp_phone, flag_work_phone, flag_cont_mobile, flag_phone, flag_email, occupation_type, cnt_fam_members, region_rating_client, region_rating_client_w_city, weekday_appr_process_start, hour_appr_process_start, reg_region_not_live_region, reg_region_not_work_region, live_region_not_work_region, reg_city_not_live_city, reg_city_not_work_city, live_city_not_work_city, organization_type, ext_source_1	
	Output	Target (0 or 1)	
3. Dạng toán		Supervised	
Data 3			
1. Bài toán 2. Liệt kê		Clustering	
	Input	TotalSales, OrderCount, AvgOrderValue	
	Output		
3. Dạng toán		Unsupervised	
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Data 4			
1. Bài toán		Dimensionality reduction	
2. Liệt kê	Input	pixel1, pixel2, pixel 3 pixel784, class	
	Output		

3. Dạng toán	Unsupervised
Data 5	
1. Dạng toán	Reinforcement Learning
2. Kỹ thuật	Reward: increasing scores Punishment: decreasing score Albert learned to: * Room 1: - Move in right direction: rewarded based on speed and direction of Albert * Room 2: - Stand: rewarded if foot hit the ground and chest was high enough - Do smoother movement: rewarded if use a strength of almost 0 * Room3: - Stand straight: rewarded based on the height of chest (higher chest, more rewarded) * Room 4: - Use both feet: rewarded if the front foot has been in front for less than 2 seconds - Take larger steps: rewarded based on the distance of the step - Reach consistent velocity: rewarded based on the different in his body's velocity from the previous frame to the current frame * Room 5:
	- Have nicer looking walk: rewarded based on the weight Albert put on his front foot when taking steps.