

[CO2] Suppose, you have \$10 to buy food for a day. You have several options, but you need to maximize total calories from the food items for longer survival. Apply proper programming technique to choose the items so that you can have maximum calories from the given amount of money. **You are not allowed to waste any food, so if you choose an item, you will eat it completely.**

<u>Item</u>	<u>Price</u>	<u>Calories</u>
Cheese Burger	\$3	250 cal
Pizza	\$2	290 cal
Chicken fry	\$3	225 cal
Fried rice	\$4	295 cal
Salad	\$1	200 cal

- (i) Apply the name of the algorithm to find the maximum calorie you can eat. [2]
- (ii) Simulate the algorithm to find the selected items for maximum calorie you can get within \$10 [6]
- iii) Find out the selected items [2]