2. Write a program to Select The Best Product From The Offers Description: In a shoping centre, there 'N' number of items with different discounts offering. Mr. Ravi as the customer having his own openion that - high discount products saves money but low in quality and - low discount products gives more quality but expenditure is more. So, he decided that not buy products with too high discounted or too low discounted products. So he need the products of his own specified tow discounted products (Both Exclusive) Suggest to Mr. Ravi from 'N' products lists of his matching given discounted products.

PROGRAM:-

#include <stdio.h>

int main() {

int N; // Number of products

float minDiscount, maxDiscount; // Minimum and maximum discount range

float discount, price; // Discount and price of each product

int bestProduct = -1; // Index of the best product

float bestQuality = 0; // Quality of the best product

printf("Enter the number of products: ");

scanf("%d", &N);

printf("Enter the minimum discount: ");

scanf("%f", &minDiscount);

printf("Enter the maximum discount: ");

scanf("%f", &maxDiscount);

for (int i = 0; i < N; i++) {

printf("Enter the discount for product %d: ", i + 1);

scanf("%f", &discount);

printf("Enter the price for product %d: ", i + 1);

scanf("%f", &price);

if (discount > minDiscount && discount < maxDiscount) {

float quality = price / discount;

if (quality >

bestQuality) {

bestProduct = i;

bestQuality = quality;

}

}

}

if (bestProduct != -1) {

printf("The best product is product %d\n", bestProduct + 1);

} else {

printf("No product matches the specified discount range\n");

}

return 0;

}