

Home Submissions

QUESTION#1

Teacher asks the student to check whether the input number is divisible by 7 or not. For checking the divisibility, take the last digit and double it, take the rest of the digits and subtract the doubled last digit repeat until the result is 7, -7 or 0.

For e.g.:

10976 -> 1097-12 = 1085 -> 108-10 = 98 -> 9-16 = -7

49 -> 4 - 18 = 14 -> 1 - 8 = -7

QUESTION#2

Write a program that asks for the number of calories and fat grams in a food. The program should display the percentage of calories that come from fat. If the calories from fat are less than 30% of the total calories of the food, it should also display a message indicating that the food is low in fat.

One gram of fat has 9 calories, so Calories from fat = fat grams * 9

The percentage of calories from fat can be calculated as: calories from fat/total calories.

Input validation: Make sure the number of calories and fat grams are not less than 0.

Also, the number of calories from fat cannot be greater than the total number of calories. If that happens, display an error message indicating that either the calories or fat grams were incorrectly entered.

QUESTION#3

Write a program in which user enters his NTS and F.Sc marks and your program will help student in selection of university. Based on these marks Student will be allocated a seat at different department of different university.

- Oxford University
 - IT: Above 70% in Fsc. and 70 % in NTS
 - Electronics: Above 70% in Fsc. and 60 % in NTS
 - Telecommunication Above 70% in Fsc. and 50 % in NTS
- MIT
 - IT: 70% - 60 % in Fsc. and 50 % in NTS
 - Chemical: 59% – 50 % in Fsc. and 50 % in NTS
 - Computer: Above 40% and below 50 % in Fsc. and 50 % in NTS

QUESTION#4

The weekday is true if it is a weekday, and the vacation is true if we are on vacation. We sleep in if it is not a weekday or we're on vacation. Print true if we sleep in.

sleepIn(false, false) → true

sleepIn(true, false) → false

sleepIn(false, true) → true

QUESTION#5

Write a program to control a coffee machine. Allow the user to input the type of coffee as B for Black and W for White. Ask the user if the cup size is double and if the coffee is manual. The following table details the time chart for the machine for each coffee type. Display a statement for each step. If the coffee size is double, increase the baking time by 50 percent. Use functions to display instructions to the user and to compute the coffee time.

Operation	White Coffee	Black Coffee
Put Water	15 mins	20 mins
Sugar	15 mins	20 mins
Mix Well	20 mins	25 mins
Add Coffee	2 mins	15 mins
Add Milk	4 mins	-
Mix Well	20mins	25 mins

QUESTION#6

Using IF and Switch statement, write a program that displays the following menu for the food items available to take order from the customer:

- B= Burger (Rs. 200)
- F= French Fries (Rs. 50)
- P= Pizza (Rs. 500)
- S= Sandwiches (Rs. 150)

The costumer can order any combination of available food. The program first ask to enter the no of types of snacks i.e. 2, 3 or 4 then it ask to enter the choice i.e. B for Burger and then for quantity. The program should finally display the total charges for the order.

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ABC Restaurant Online Order Placement
WELCOME!

Please select from the following Menu
B= Burger
F= French Fries
P= Pizza
S= Sandwiches
How many types of snacks you need to order: 2
Enter first Snack you want to order: B
Please provide quantity: 2
Enter second Snack you want to order: P
Please provide quantity: 3
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You have ordered!
2 Burger (s) value 400 PKR
3 pizza (s) value 1500 PKR
Total: 1900 PKR
Thank you for your order.. have a nice day.
```