October 5, 2017 Thursday

Lab 6

Conditional Statements in C

Marks: 6

Question 01:

Generate the following output:

TEMPERATURE CONVERSION Press 1 to give temperature in Celsius and Press 2 to give temperature in Fahrenheit 2 Enter temperature in Fahrenheit: 75.25 Temperature in Celsius is: 24.02

Question 02:

Calculate student's grade with respect to his/her percentage. Percentage will be provided by user. Grading criteria is as follows:

GRADE	PERCENTAGE
A +	80% or above
A	70% - 79%
В	60% - 69%
C	50% - 59%
D	40% - 49%
F	Below 40%

Question 03:

Write a program to take character input and check whether the input is Capital letter or small letter.

Question 04:

The body mass index (BMI) is the ratio of the weight of a person (in kilograms) to the square of the height (in meters). Write a program that takes two inputs, weight and height, computes the BMI, and prints the corresponding BMI category:

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$$BMI = \frac{weight(lb) \times 703}{(height(in))^2}$$

• Starvation: less than 15

• Anorexic: less than 17.5

• Underweight: less than 18.5

• Ideal: greater than or equal to 18.5 but less than 25

• Overweight: greater than or equal to 25 but less than 30

• Obese: greater than or equal to 30 but less than 40

• Morbidly Obese: greater than or equal to 40

Question 05:

A) Write a program to input your age and your sister's age and then display who is older of the two.

```
Enter Your Age: 21
Enter Your Sister's Age: 19 You are older of
the two
```

B) Convert the following into equivalent if-else statement

```
x=(y<0)? printf("Negative"): printf("Positive");
```

Question 06:

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 asks 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.

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

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.