Student Name: _____Emaan Binte Shams_____ **Roll No:** _____25K-3082_____ **Section: BSE-1B**

Scenario: Pizza Delivery Order System

You are building a simple C program for a pizza shop to take orders and calculate the total cost.

Question 1:

Ask the user to choose a pizza size: 1. Small, 2. Medium, 3. Large. Print the chosen size. If they choose wrong, print "Invalid size."

```c
#include<stdio.h>

int main()
{
    int size;
    printf("Choose Pizza Size: \n");
    printf("1. Small, 2. Medium, 3. Large.");
    scanf("%d",&size);
    switch(size)
    {
        case 1:
            printf("Small");
            break;
        case 2:
            printf("Medium");
            break;
        case 3:
            printf("Large");
            break;
        default:
            printf("Invalid size");
    }
    return 0;
}
```

```
Choose Pizza Size:
1. Small, 2. Medium, 3. Large.2
Medium
------------------------------
Process exited after 2.244 seconds with return value 0
Press any key to continue . . .
```

```
Choose Pizza Size:
1. Small, 2. Medium, 3. Large.5
Invalid size
------------------------------
Process exited after 2.073 seconds with return value 0
Press any key to continue . . .
```

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Question 2:

A small pizza costs $8. Ask how many pizzas they want. If they want more than one, print "Check our multi-pizza deals." Otherwise, print "Your total is $8."

```
How many pizzas do you want?2
Check our multi pizza deals
```

```
How many pizzas do you want?1
Your total is $8
```

Question 3:

Ask how many pizzas they want (1, 2, or 3). 1 pizza costs $8, 2 pizzas cost $15, and 3 pizzas cost $21. Calculate and print the total cost with number of pizza.

```
How many pizzas do you want,1,2,or 3?3
Your total for 3 pizzas is $21
```

```
How many pizzas do you want,1,2,or 3?2
Your total for 2 pizzas is $15
```

```
How many pizzas do you want,1,2,or 3?1
your total for 1 pizza is $8
```

Question 4:

Ask for crust type and add the cost to the total. Print the new total Cost.

- Regular crust: $0
- Thin crust: $1
- Stuffed crust: $2

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Your total is $23.00
```

```
How many pizzas do you want (1, 2, or 3)? 2
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice:
T
Your total is $16.00
```

Question 5:

Ask if they want extra cheese (Y/N). If yes, add $1.50 to the total.

```
How many pizzas do you want (1, 2, or 3)? 1
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Do you want extra cheese (Y/N)? Y
Your total is $11.50
```

```
How many pizzas do you want (1, 2, or 3)? 2
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: R
Do you want extra cheese (Y/N)? Y
Your total is $16.50
```

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: T
Do you want extra cheese (Y/N)? N
Your total is $22.00
```

Question 6:

Between 11 AM and 2 PM, there's a 10% discount. Ask for the current time (0-23). If the time is between 11 and 14, apply the discount. Print the discounted total.

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Do you want extra cheese (Y/N)?Y
What is the current time(0-23)?12
Your total is $22.049999
```

```
How many pizzas do you want (1, 2, or 3)? 1
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: T
Do you want extra cheese (Y/N)?N
What is the current time(0-23)?5
Your total is $9.000000
```

Question 7:

Students get $2 off. Ask if they have a student ID (Y/N). If yes, subtract $2 from the total. Print the final cost.

```
How many pizzas do you want (1, 2, or 3)? 2
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: R
Do you want extra cheese (Y/N)?Y
What is the current time(0-23)?5
Do you have a student ID (Y/N)?Y
Your total is $14.500000
```

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Do you want extra cheese (Y/N)?Y
What is the current time(0-23)?3
Do you have a student ID (Y/N)?N
Your total is $24.500000
```

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Question 8:

If they order 3 pizzas with stuffed crust, print "You get free garlic bread!"

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Do you want extra cheese (Y/N)?Y
What is the current time(0-23)?4
Do you have a student ID (Y/N)?N
Your total is $24.500000
You get free garlic bread!
```

Question 9:

If they want delivery, add $3. Ask if it's delivery or pickup (1. Pickup, 2. Delivery). Calculate the final cost.

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Do you want extra cheese (Y/N)?Y
What is the current time(0-23)?6
Do you have a student ID (Y/N)?N
You get free garlic bread!
How do you want to receive your order?(1.Pickup or 2.Delivery)2
Your total is $27.500000
```

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Question 10:

Combine all into one program:

- Ask for size, number of pizzas, crust type, extra cheese, time, student status, and delivery option.
- Calculate the total cost step by step.
- Print a receipt with the final amount and any free items.

```
How many pizzas do you want (1, 2, or 3)? 3
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: S
Do you want extra cheese (Y/N)?N
What is the current time(0-23)?15
Do you have a student ID (Y/N)?Y
How do you want to receive your order?(1.Pickup or 2.Delivery)1
RECEIPT:
Your total is $21.000000
You get free garlic bread!
```

```
How many pizzas do you want (1, 2, or 3)? 2
Choose crust type:
R - Regular
T - Thin
S - Stuffed
Enter your choice: T
Do you want extra cheese (Y/N)?Y
What is the current time(0-23)?16
Do you have a student ID (Y/N)?Y
How do you want to receive your order?(1.Pickup or 2.Delivery)2
RECEIPT:
Your total is $18.500000
```