

**Q1.c - Find the price of an item when a discount is given**

```
#include<stdio.h>

int main(){

    int price = 200;
    float dis;
    int finalprice;

    if(price < 500){
        dis = price * 0.1;
    } else if(price < 1000){
        dis = price * 0.2;
    } else if (price < 2000){
        dis = price * 0.3;
    } else{
        dis = 0;
    }

    finalprice = price - dis;

    printf("Price: %d\n", price);
    printf("Discount: %f\n", dis);
    printf("Final Price: %d\n", finalprice);
}
```

**Q2.c - Find the greatest of three numbers using nested if-else**

```
#include<stdio.h>

int main(){

    int a = 5, b = 60, c = 9;

    if(a > b){
```

```

    if(a > c){
        printf("a is greater than b and c");
    } else {
        printf("C is greater than b");
    }
} else if(b > c){
    printf("b is greater than c and a");
} else {
    printf("c is greater than a and b");
}
}

```

Q3.c - Simple calculator based on user input

```
#include <stdio.h>
```

```

int main() {
    int a = 10;
    int b = 3;
    int res;
    char op = '*';

    if (op == '*') {
        res = a * b;
    } else if (op == '/') {
        if (b == 0) {
            printf("Error\n");
            return 1;
        }
        res = a / b;
    } else if (op == '+') {
        res = a + b;
    }
}

```

```

    } else if (op == '-') {
        res = a - b;
    } else if (op == '%') {
        if (b == 0) {
            printf("Error\n");
            return 1;
        }
        res = a % b;
    } else {
        printf("Error\n");
        return 1;
    }

    printf("Result is: %d\n", res);
}

```

Q4.c - Menu-based program for Even/Odd and Basic Salary

```

#include<stdio.h>

int main(){
    int choice;

    printf("Menu:\n1. Even/Odd\n2. Basic Salary\n ");
    printf("Enter your choice: ");
    scanf("%d", &choice);

    if(choice == 1){
        printf("Even / Odd");
    } else if (choice == 2){
        printf("Basic Salary ");
    } else{

```

```
        printf("Error");
    }
}
```

#### Q5.c - Discount calculation based on student status

```
#include <stdio.h>
```

```
int main() {
    float price, discount;
    char Student;

    printf("Enter the price: ");
    scanf("%f", &price);

    printf("Are you a student? (y/n): ");
    scanf(" %c", &Student);

    if (Student == 'y' || Student == 'Y') {
        if (price > 500) {
            discount = price * 0.2;
        } else {
            discount = price * 0.1;
        }
    } else if (Student == 'n' || Student == 'N') {
        if (price > 600) {
            discount = price * 0.15;
        }
    } else {
        printf("Invalid");
    }
}
```

```
float finalPrice = price - discount;  
printf("Final price: %f\n", finalPrice);  
}
```