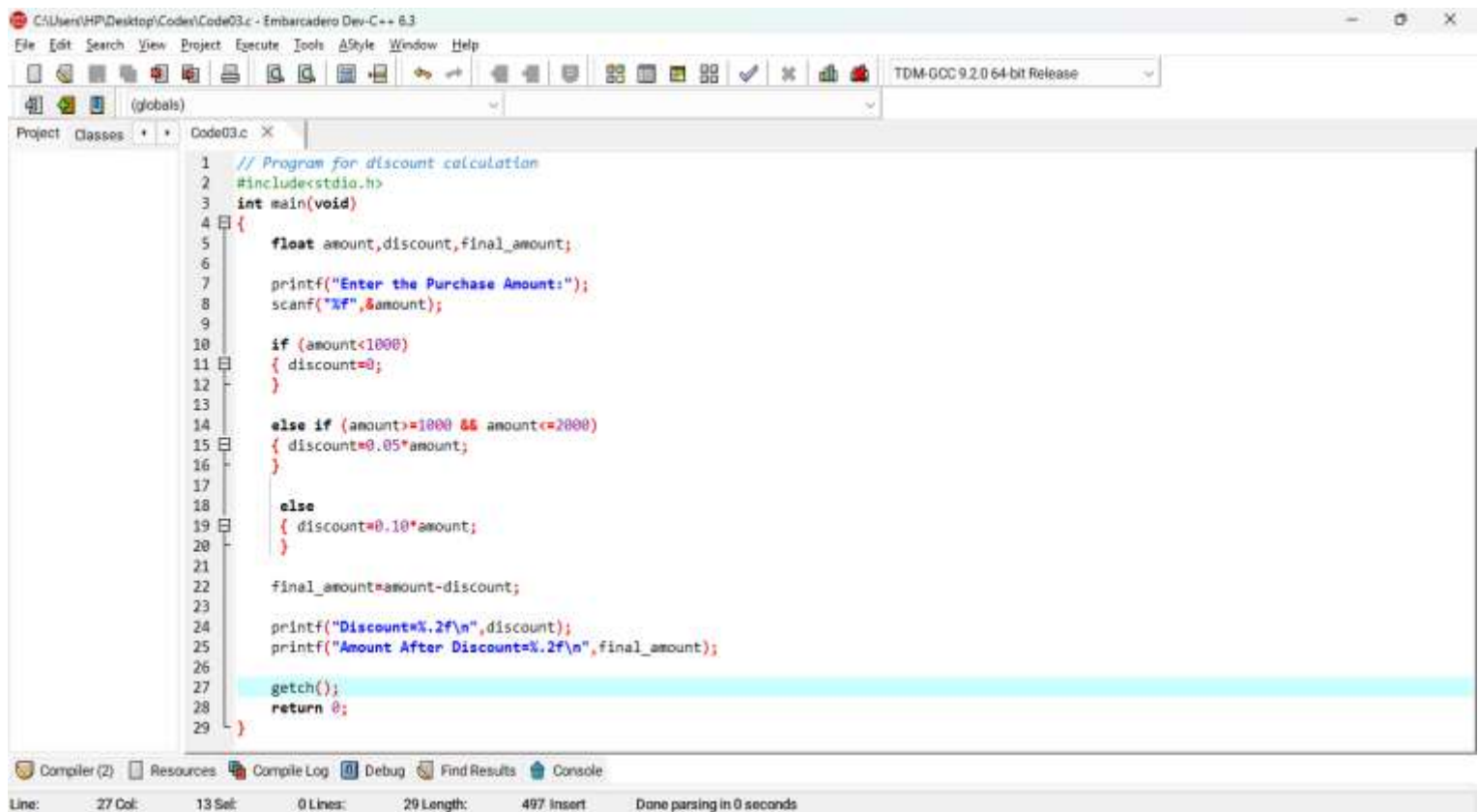


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CLASS: BCIT
SECTION: B

QUESTION 01: Create a program that calculates the discount on a purchase based on the amount spent and print the price after discount. The discount is:

- 0% for purchases below Rs 1000
- 5% for purchases between Rs 1000 and Rs 2000
- 10% for purchases above Rs 2000

SOURCE CODE:

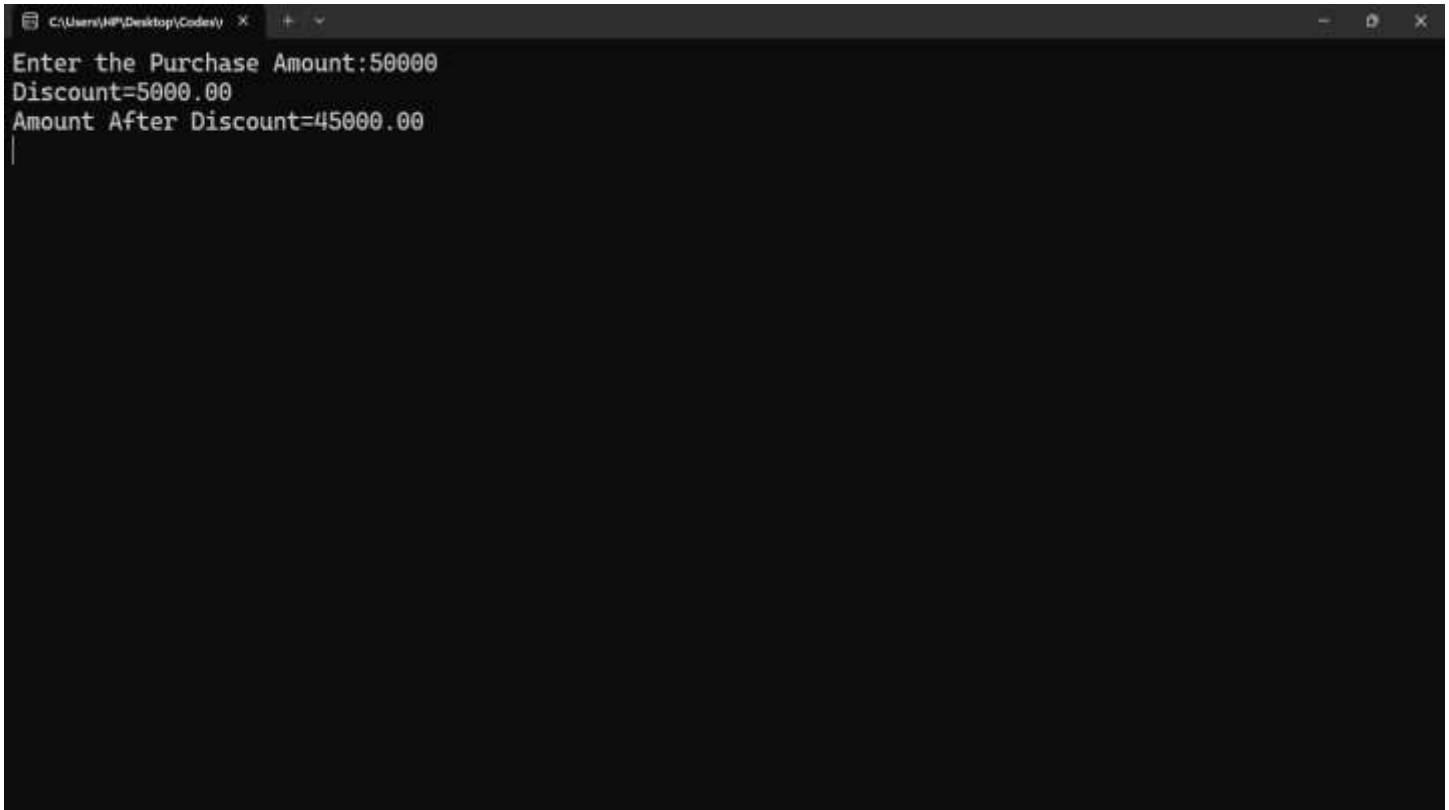


The screenshot shows a C++ IDE window titled "Code03.c - Embarcadero Dev-C++ 6.3". The code is as follows:

```
1 // Program for discount calculation
2 #include<stdio.h>
3 int main(void)
4 {
5     float amount, discount, final_amount;
6
7     printf("Enter the Purchase Amount:");
8     scanf("%f", &amount);
9
10    if (amount<1000)
11    { discount=0;
12    }
13
14    else if (amount>=1000 && amount<=2000)
15    { discount=0.05*amount;
16    }
17
18    else
19    { discount=0.10*amount;
20    }
21
22    final_amount=amount-discount;
23
24    printf("Discount=%.2f\n", discount);
25    printf("Amount After Discount=%.2f\n", final_amount);
26
27    getch();
28    return 0;
29 }
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing "Line: 27 Col: 13 Sel: 0 Lines: 29 Length: 497 Insert: Done parsing in 0 seconds".

OUTPUT:



```
C:\Users\HP\Desktop\Codes\ >
Enter the Purchase Amount:50000
Discount=5000.00
Amount After Discount=45000.00
|
```

QUESTION 02: Create a menu-driven program using switch-case that simulates a simple ATM system. The user can choose to:

- Check balance
- Withdraw money
- Deposit money

Based on the user's choice, perform the corresponding action and print a message. If the user selects a wrong option, print "Invalid Option".

SOURCE CODE:

```
C:\Users\HP\Desktop\Codes\Code04.c - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools Style Window Help
(globals)
Code03.c Code04.c
1 #include<stdio.h>
2 int main()
3 {
4     int transaction;
5     float balance=85000,withdraw,deposit;
6
7     printf("\n----- ATM SERVICE ----- \n\n");
8     printf("Please Select a Transaction:\n");
9     printf("1: Check Balance\n");
10    printf("2: Withdraw Money\n");
11    printf("3: Deposit Money\n");
12    scanf("%d",&transaction);
13
14    switch(transaction)
15    {
16    {
17        case 1:
18            printf("Your Current Balance is %.2f.\n",balance);
19            printf("-----THANK YOU-----");
20            break;
21
22        case 2:
23            printf("Enter the Amount You Want To Withdraw:");
24            scanf("%f",&withdraw);
25            balance=balance-withdraw;
26            printf("\nYou Have Withdrawn Rs.%.2f.\n",withdraw);
27            printf("Now Your Remaining Balance is Rs.%.2f \n" balance);
28    }
29
30    Compiler (2) Resources Compile Log Debug Find Results Console
Line: 1 Col: 18 Sel: 0 Lines: 48 Length: 1146 Insert Done parsing in 0.015 seconds
```

```
C:\Users\HP\Desktop\Codes\Code04.c - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools Style Window Help
(globals)
Code03.c Code04.c
23    printf("Enter the Amount You Want To Withdraw:");
24    scanf("%f",&withdraw);
25    balance=balance-withdraw;
26    printf("\nYou Have Withdrawn Rs.%.2f.\n",withdraw);
27    printf("Now Your Remaining Balance is Rs.%.2f.\n",balance);
28    printf("-----THANK YOU-----");
29    break;
30
31    case 3:
32    printf("Enter the Amount You Want To Deposit:");
33    scanf("%f",&deposit);
34    balance=deposit+balance;
35    printf("\nRs.%.2f Has Been Deposited To Your Account.\n",deposit);
36    printf("Your Updated Balance is %.2f.\n",balance);
37    printf("-----THANK YOU-----");
38    break;
39
40    default:
41    printf("\nInvalid Option");
42    break;
43 }
44
45 getch();
46 return 0;
47
48 }
49
50 Compiler (2) Resources Compile Log Debug Find Results Console
Line: 1 Col: 18 Sel: 0 Lines: 48 Length: 1146 Insert Done parsing in 0.015 seconds
```

OUTPUT:

```
C:\Users\HP\Desktop\Codes\ >
----- ATM SERVICE -----

Please Select a Transaction:
1: Check Balance
2: Withdraw Money
3: Deposit Money
1
Your Current Balance is 85000.00.
-----THANK YOU-----|
```

```
C:\Users\HP\Desktop\Codes\ >
----- ATM SERVICE -----

Please Select a Transaction:
1: Check Balance
2: Withdraw Money
3: Deposit Money
2
Enter the Amount You Want To Withdraw:5400

You Have Withdrawn Rs.5400.00.
Now Your Remaining Balance is Rs.79600.00.
-----THANK YOU-----|
```

```
C:\Users\HP\Desktop\Codes\ >
----- ATM SERVICE -----

Please Select a Transaction:
1: Check Balance
2: Withdraw Money
3: Deposit Money
3
Enter the Amount You Want To Deposit:60000

Rs.60000.00 Has Been Deposited To Your Account.
Your Updated Balance is 145000.00.
-----THANK YOU-----
```

```
C:\Users\HP\Desktop\Codes\ >
----- ATM SERVICE -----

Please Select a Transaction:
1: Check Balance
2: Withdraw Money
3: Deposit Money
5

Invalid Option
```

