

Program 1:

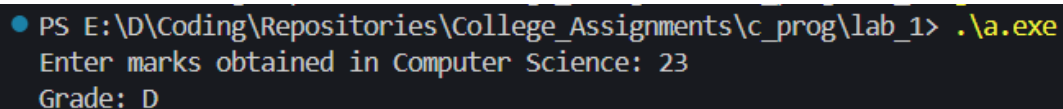
```
#include <stdio.h>

int main() {
    float marks;

    printf("Enter marks obtained in Computer Science: ");
    scanf("%f", &marks);

    if (marks > 90) {
        printf("Grade: A\n");
    }
    else if (marks >= 70 && marks <= 90) {
        printf("Grade: B\n");
    }
    else if (marks >= 50 && marks <= 69) {
        printf("Grade: C\n");
    }
    else {
        printf("Grade: D\n");
    }

    return 0;
}
```



```
PS E:\D\Coding\Repositories\College_Assignments\c_prog\lab_1> .\a.exe
Enter marks obtained in Computer Science: 23
Grade: D
```

Program 2:

```
#include <stdio.h>

int main() {
    float totalCost, discount, finalAmount;
```

```

printf("Enter the total cost of items: Rs. ");
scanf("%f", &totalCost);

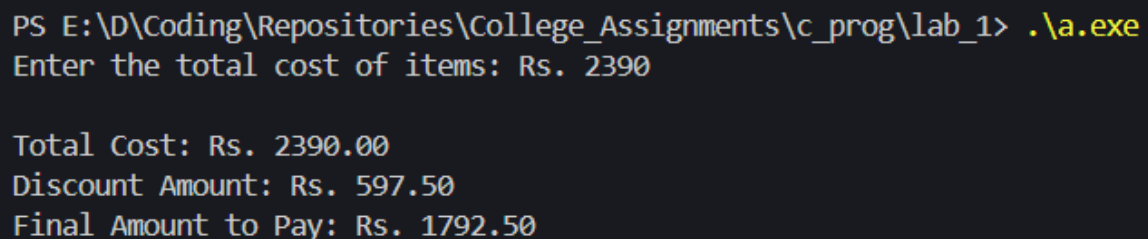
if (totalCost <= 2000) {
    discount = totalCost * 0.05;
} else if (totalCost <= 5000) {
    discount = totalCost * 0.25;
} else if (totalCost <= 10000) {
    discount = totalCost * 0.35;
} else {
    discount = totalCost * 0.50;
}

finalAmount = totalCost - discount;

printf("\nTotal Cost: Rs. %.2f\n", totalCost);
printf("Discount Amount: Rs. %.2f\n", discount);
printf("Final Amount to Pay: Rs. %.2f\n", finalAmount);

return 0;
}

```



```

PS E:\D\Coding\Repositories\College_Assignments\c_prog\lab_1> .\a.exe
Enter the total cost of items: Rs. 2390

Total Cost: Rs. 2390.00
Discount Amount: Rs. 597.50
Final Amount to Pay: Rs. 1792.50

```

Program 3:

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

```
int main() {
```

```

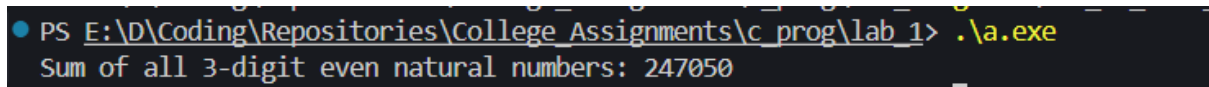
int sum = 0;

for(int i = 100; i <= 998; i += 2) {
    sum += i;
}

printf("Sum of all 3-digit even natural numbers: %d\n", sum);

return 0;
}

```



```

PS E:\D\Coding\Repositories\College Assignments\c_prog\lab_1> .\a.exe
Sum of all 3-digit even natural numbers: 247050

```

Program 4:

```

#include <stdio.h>

int main() {
    int sum = 0;
    int count = 0;
    int num = 1;

    while (count < 10) {
        sum += num;
        num += 2;
        count++;
    }

    printf("Sum of first 10 odd natural numbers is: %d\n", sum);

    return 0;
}

```

```
PS E:\D\Coding\Repositories\College_Assignments\c_prog\lab_1> .\a.exe
Sum of first 10 odd natural numbers is: 100
```

Program 5:

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

```
int main() {
```

```
    int sum = 0;
```

```
    for(int i = 100; i <= 999; i++) {
```

```
        if(i % 2 != 0 && i % 5 == 0) {
```

```
            sum += i;
```

```
        }
```

```
    }
```

```
    printf("Sum of 3-digit odd numbers divisible by 5: %d\n", sum);
```

```
    return 0;
```

```
}
```

```
PS E:\D\Coding\Repositories\College_Assignments\c_prog\lab_1> .\a.exe
Sum of 3-digit odd numbers divisible by 5: 49500
```