



**PRACTICAL FILE**  
**OF**  
**PROGRAMMING IN C**  
**COURSE CODE -CSEG1041**  
**SCHOOL OF COMPUTER SCIENCE**

**SUBMITTED BY:**

**NAME:**Anshika

**SAP ID:**590028657

**COURSE :**BSC CS

**SEMESTER:**01

**BATCH:**01

**ACADEMIC YEAR:**2025-2026

**SUBMITTED BY:**

## Experiment 3: Conditional Statements

***// Write a C program to check whether a number is Even or ODD***

```
#include <stdio.h>

int main() {

printf("Name -Anshika\n");

    printf("SAP ID:590028657\n");

    printf("Course - bscCS\n");

    printf("batch-01\n");

    printf("\n-----\n");

int num;

    printf("Enter a number: ");

    scanf("%d", &num);

if(num % 2 == 0)

    printf("%d is Even\n", num);

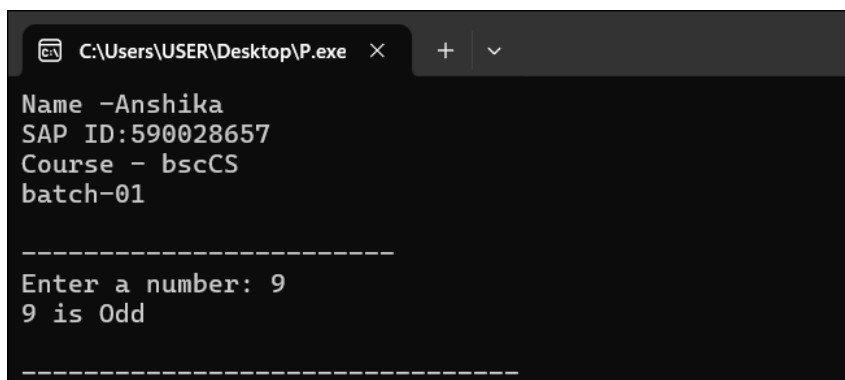
else

    printf("%d is Odd\n", num);

return 0;

}
```

## OUTPUT:



```
C:\Users\USER\Desktop\P.exe × + v
Name -Anshika
SAP ID:590028657
Course - bscCS
batch-01
-----
Enter a number: 9
9 is Odd
-----
```

***// WAP to check if the triangle is valid or not. If the validity is established, do check if the triangle is isosceles, equilateral, right angle, or scalene. Take sides of the triangle as input from a user.***

```
#include <stdio.h>

int main() {

printf("Name - Anshika\n");

    printf("SAP ID:590028657\n");

    printf("Course - bscCS\n");

    printf("batch-01\n");

    printf("\n-----\n");

int a, b, c;

    printf("Enter three sides of the triangle: ");

    scanf("%d %d %d", &a, &b, &c);

if((a + b > c) && (a + c > b) && (b + c > a)) {

    printf("Triangle is Valid.\n");

if(a == b && b == c)

    printf("It is an Equilateral Triangle.\n");

else if(a == b || b == c || a == c)

    printf("It is an Isosceles Triangle.\n");

else

    printf("It is a Scalene Triangle.\n");

if((a*a == b*b + c*c) || (b*b == a*a + c*c) || (c*c == a*a + b*b))

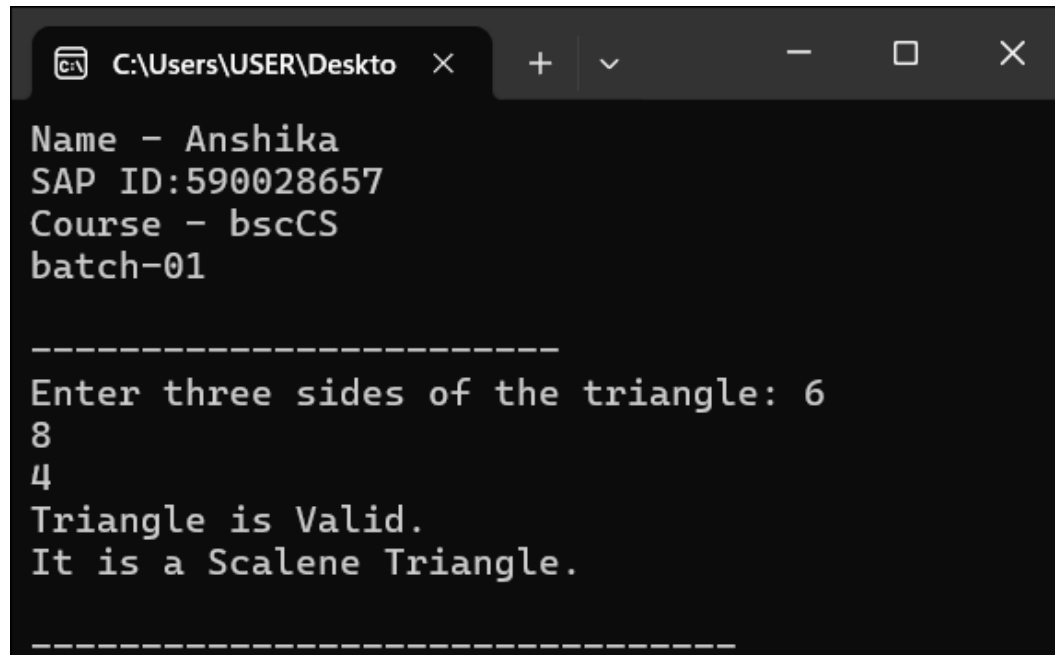
    printf("It is also a Right-angled Triangle.\n");

}

else {
```

```
        printf("Triangle is NOT Valid.\n");  
    }  
    return 0;  
}
```

## OUTPUT:



A screenshot of a Windows command prompt window. The title bar shows the file path 'C:\Users\USER\Desktop' and standard window controls. The output of the program is displayed in a monospaced font. It shows personal information, a separator line, input for triangle sides, and the resulting validation.

```
C:\Users\USER\Desktop > .\program.exe  
Name - Anshika  
SAP ID:590028657  
Course - bscCS  
batch-01  
  
-----  
Enter three sides of the triangle: 6  
8  
4  
Triangle is Valid.  
It is a Scalene Triangle.  
  
-----
```

***// WAP to compute the BMI Index of the person and print the BMI values as per the following ranges. You can use the following formula to compute  $BMI = \text{weight(kgs)} / \text{Height(Mts)} * \text{Height(Mts)}$ .***

Category	BMI Range
Starvation	< 15
Anorexic	15.1 to 17.5
Underweight	17.6 to 18.5
Ideal	18.6 to 24.9
Overweight	25 to 25.9
Obese	30 to 39.9
Morbidly Obese	40.0 and above

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

```
int main() {
```

```
printf("Name - Anshika\n");
```

```
    printf("SAP ID:590028657\n");
```

```
    printf("Course - bscCS\n");
```

```
    printf("batch-01\n");
```

```
    printf("\n-----\n");
```

```
float weight, height, bmi;
```

```
printf("Enter weight (in kgs): ");
```

```

scanf("%f", &weight);

printf("Enter height (in meters): ");

scanf("%f", &height);

bmi = weight / (height * height);

printf("Your BMI is: %.2f\n", bmi);

if(bmi < 18.5)

    printf("You are Underweight.\n");

else if(bmi >= 18.5 && bmi < 25)

    printf("You are Normal weight.\n");

else if(bmi >= 25 && bmi < 30)

    printf("You are Overweight.\n");

else

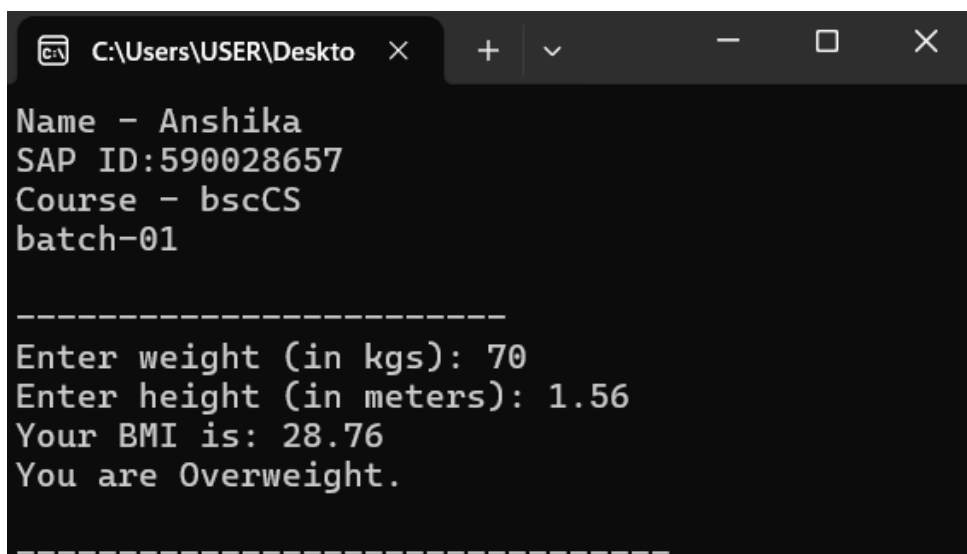
    printf("You are Obese.\n");

return 0;

}

```

## OUTPUT:



The screenshot shows a Windows command prompt window with a dark background. The title bar at the top indicates the file path 'C:\Users\USER\Desktop'. The window contains the following text:

```

Name - Anshika
SAP ID:590028657
Course - bscCS
batch-01

-----
Enter weight (in kgs): 70
Enter height (in meters): 1.56
Your BMI is: 28.76
You are Overweight.
-----

```