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

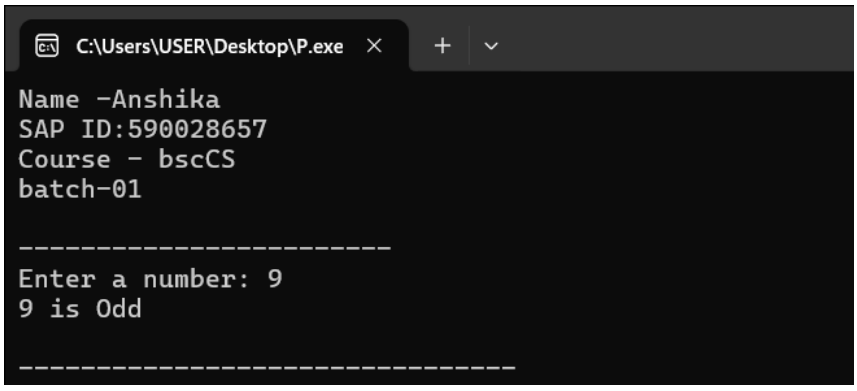
SUBMITTED BY:

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:

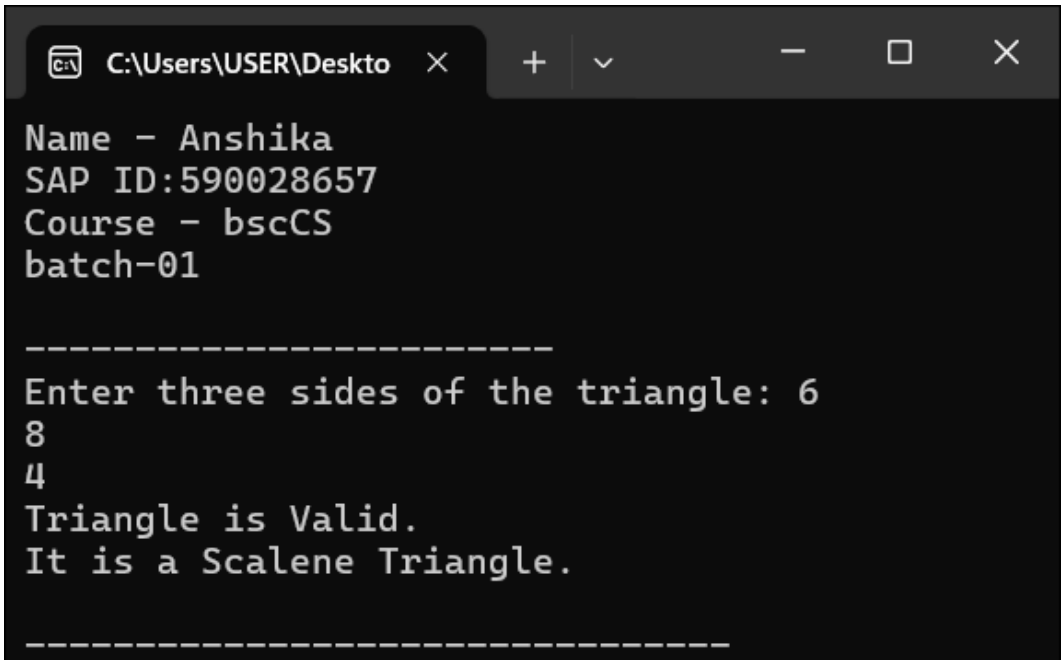


// WAP to check if the triangle is valid or not. If the validity is established, do check if the triangle is isosceles, equilateral, right angle, or scalene. Take sides of the triangle as input from a user.

```
#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:



// 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= weight(kgs)/Height(Mts)*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: