
# PRACTICAL FILE

# OF

# PROGRAMMING IN C

# COURSE CODE -CSEG1041

# SCHOOL OF COMPUTER SCIENCE

**SUBMITTED BY:**

**NAME:**MANAN

**SAP ID:**590028349

**COURSE :**BSC CS

**SEMESTER:**01

**BATCH:**01

**ACADEMIC YEAR:**2025-2026

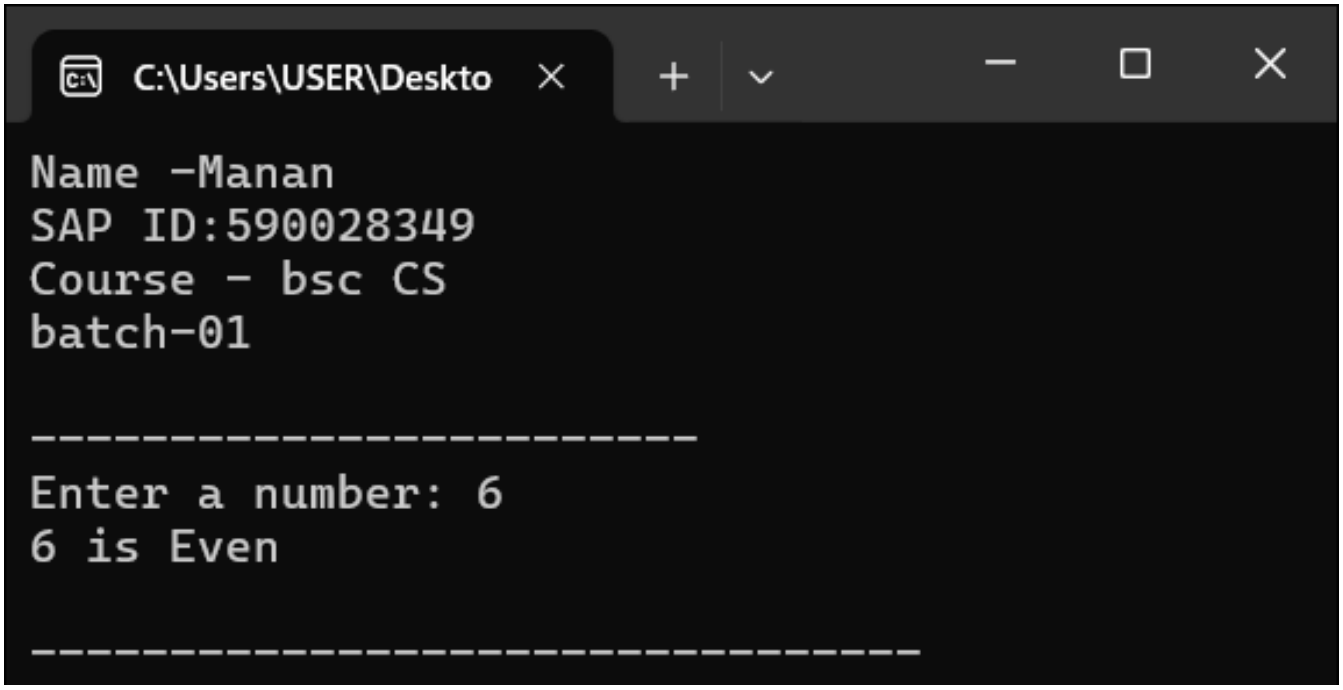
**SUBMITTED BY:**

## Experiment 3: Conditional Statements

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

```
#include <stdio.h>

int main() {

printf("Name -Manan\n");

          printf("SAP ID:590028349\n");

          printf("Course - bsc CS\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**:

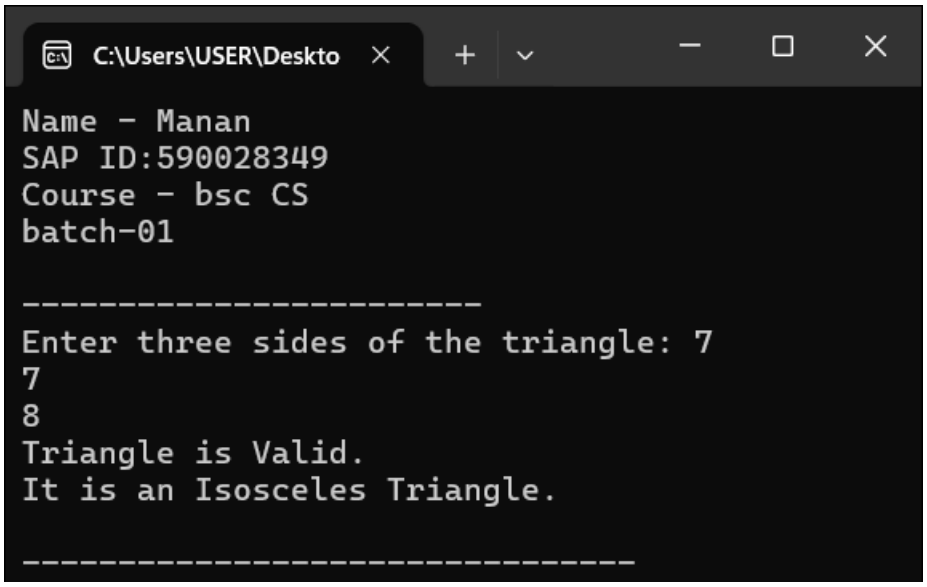

C:\Users\USER\Deskto
Name -Manan
SAP ID:590028349
Course - bsc CS
batch-01
_____
Enter a number: 6
6 is Even
_____

***// 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 - Manan \n");

            printf("SAP ID:590028349\n");

            printf("Course - bsc CS\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 - Manan \n");
        printf("SAP ID:590028349\n");
        printf("Course – bsc CS\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:**