Practical File of

Programming in C

Course Code: CSEG1041

School Of Computer Science

Submitted By

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Course: BCA
Semester: 1
Batch: B5
Academic Year : 2025-26

Submitted To

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Experiment 3: Conditional Statements

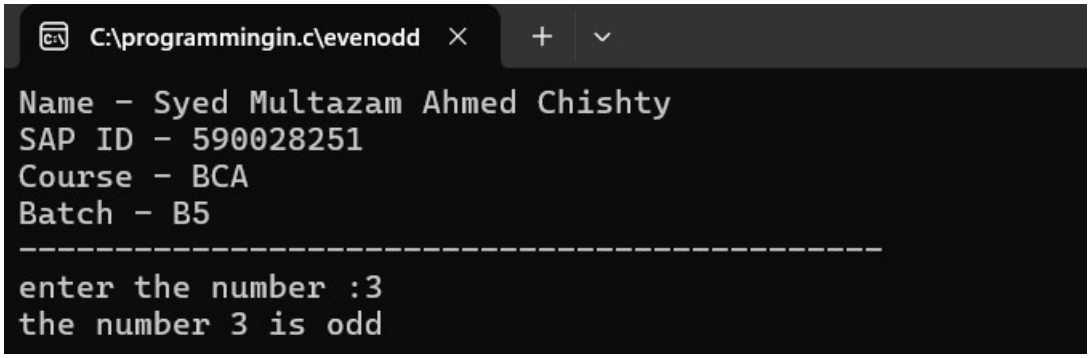
3.1 WAP a C program to check wether the number is even or odd

SOURCE CODE: -

```
// WAP to check wether the number is even or odd
#include<stdio.h>
int main ()
{   printf("Name - Syed Multazam Ahmed Chishty\nSAP ID - 590028251\nCourse - BCA\nBatch - B5");
   printf("\n-----------------------------------------\n");

        int a;
        printf("enter the number :");
   scanf("%d",&a);
   if (a%2==0)// modulus for remainder and == 0 so that means nu is even
   {printf("the number %d is even",a);}
   else {printf("the number %d is odd",a);
        }
        return 0;


} EXECUTION: -
```

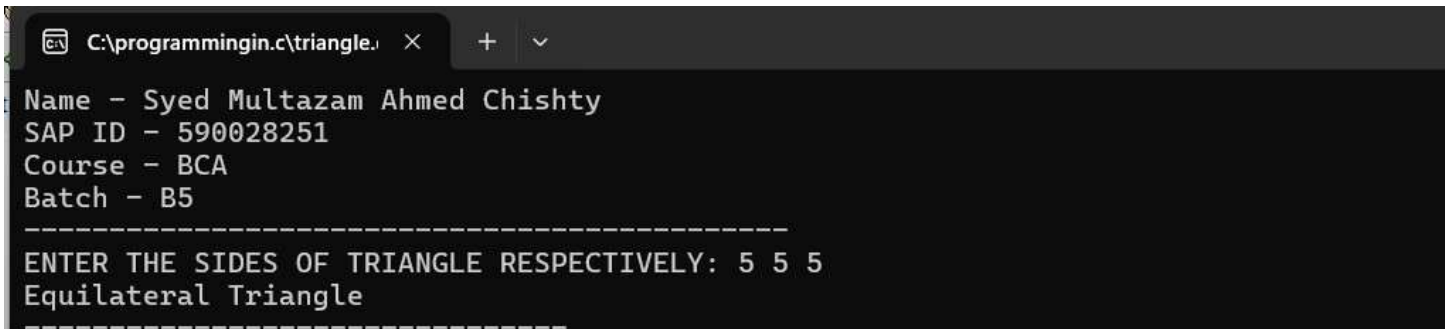


3.2 WAP to check if the triangle is valid or not. If the validity is established, do check if the triangle is isosceles, equilateral, right angle, or scalene. Take sides of the triangle as input from a user.

SOURCE CODE: -

```
/*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>
#include<math.h>
int main()
{ int s1,s2,s3;
printf("ENTER THE SIDES OF TRIANGLE RESPECTIVELY: ");
scanf("%d %d %d",&s1,&s2,&s3);
if ((s1==0||s2==0||s3==0)||(s1 + s2 <= s3) || (s1 + s3 <= s2) || (s2 + s3 <= s1))
{printf("This is not a triangle");}
else if (s1==s2 && s2==s3)
{printf("Equilateral Triangle");}
else if (s1==s2||s1==s3||s2==s3)
{printf("Iscoceles Triangle");}
else if
((pow(s1,2)==pow(s2,2)+pow(s3,2))||(pow(s2,2)==pow(s1,2)+pow(s3,2))||(pow(s3,2)==
pow(s2,2)+pow(s1,2)))
{printf("Right angle triangle");}
else
{printf("Scalene Triangle");}
}
```

EXECUTION: -

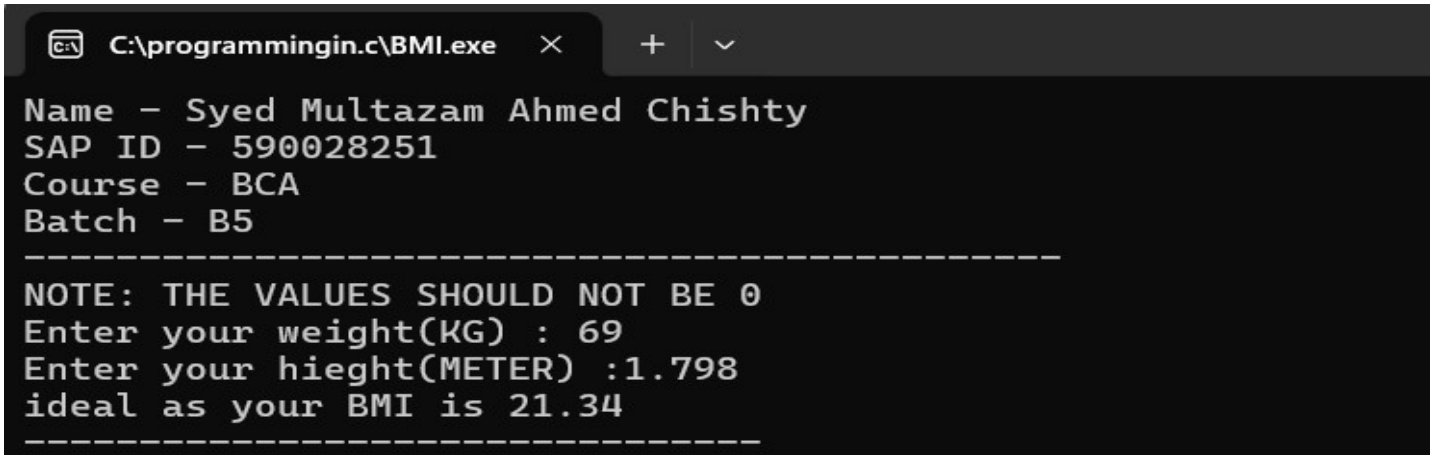


3.3 WAP to compute the BMI Index of the person and print the BMI values as per the following ranges.
You can use the following formula to compute BMI=
weight(kgs)/Height(Mts)*Height(Mts).?

SOURCE CODE: -

```
 /*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).*/
#include<stdio.h>
#include<math.h>
int main()
{ printf("Name - Syed Multazam Ahmed Chishty\nSAP ID - 590028251\nCourse - BCA\nBatch - B5");
   printf("\n-----------------------------------------\n");
       double h,w,BMI;
       printf("NOTE: THE VALUES SHOULD NOT BE 0\nEnter your weight(KG) :");
   scanf("%lf",&w);
   printf("Enter your hieght(METER) :");
   scanf("%lf",&h);
   BMI=w/(pow(h,2));
   if (BMI<15)
   {printf("starvation as your BMI is %.2lf",BMI);}
       else if (BMI<=17.5)
   {printf("Anorexia as your BMI is %.2lf",BMI);}
       else if (BMI<=18.5)
   {printf("Underweight as your BMI is %.2lf",BMI);}
       else if (BMI<=24.9)
   {printf("ideal as your BMI is %.2lf",BMI);}
       else if (BMI<=29.9)
   {printf("overwieght as your BMI is %.2lf",BMI);}
       else if (BMI<=39.9)
   {printf("obese as your BMI is %.2lf",BMI);}
   else
       printf("Morbidly obese as your BMI is %.2lf",BMI);
}
```

EXECUTION: -


C:\programmingin.c\BMI.exe
Name - Syed Multazam Ahmed Chishty
SAP ID - 590028251
Course - BCA
Batch - B5
NOTE: THE VALUES SHOULD NOT BE 0
Enter your weight(KG) : 69
Enter your hieght(METER) :1.798
ideal as your BMI is 21.34