

Experiment No. _____

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```
int main()
{
    float weight, height;
    printf ("enter weight (kg):");
    scanf ("%f", &weight);
    printf ("enter your height (m):");
    scanf ("%f", &height);

    float bmi = weight / (height * height);
    if (bmi < 15)
        printf ("STARVATION\n");
    else if (bmi >= 15.1 && bmi <= 17.5)
        printf ("ANOREXIC\n");
    else if (bmi >= 17.6 && bmi <= 19.5)
        printf ("UNDERWEIGHT\n");
    else if (bmi >= 19.6 && bmi <= 24.9)
        printf ("IDEAL\n");
    else if (bmi >= 25.0 && bmi <= 29.9)
        printf ("OVERWEIGHT\n");
    else if (bmi >= 30.0 && bmi <= 39.9)
        printf ("OBESE\n");
}
```

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```
else if (bmi >= 40)
    printf (" MORBIDLY OBESE /n ")
return 0;
}
```

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main.c

```
1
2     #include <stdio.h>
3
4 int main()
5 {
6     float weight, height;
7
8     printf("Enter weight (kg): ");
9     scanf("%f", &weight);
10
11    printf("Enter height (m): ");
12    scanf("%f", &height);
13
14    float bmi = weight / (height * height);
15    if (bmi < 15)
16        printf("STARVATION\n");
17    else if (bmi >= 15.1 && bmi < 17.5)
18        printf("ANOREXIC\n");
19    else if (bmi >= 17.6 && bmi < 18.5)
20        printf("UNDERWEIGHT\n");
21    else if (bmi >= 18.6 && bmi < 24.9)
22        printf("IDEAL\n");
23    else if (bmi >= 25.0 && bmi < 29.9)
24        printf("OVERWEIGHT\n");
25    else if (bmi >= 30.0 && bmi < 39.9)
26        printf("OBESE\n");
27    else if (bmi >= 40.0)
28        printf("MORBIDLY OBESE\n");
29    return 0;
30 }
```

Output

Enter weight (kg): 58
Enter height (m): 1.6
IDEAL

=== Code Execution Successful ===