

2. 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 $BMI = \text{weight (Kgs)} / \text{Height (Mts)}^2 \times \text{Height (Mts)}$.

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

```
int main() {
```

```
    float weight, height;
```

```
    float BMI;
```

```
    printf ("Enter the weight in Kgs ");
```

```
    scanf ("%f", &weight);
```

```
    printf ("Enter the height in mts ");
```

```
    scanf ("%f", &height);
```

```
    BMI = (weight / (height * height));
```

```
    printf ("The BMI is : %f", BMI);
```

```
}
```

```
    if (BMI < 15)
```

```
    {
```

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

```
    }
```

```
    else if (BMI >= 15.1 && BMI <= 17.5)
```

```
    {
```

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

```
    }
```

```
    else if (BMI >= 17.6 && BMI <= 18.5)
```

```
    {
```

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

```
    }
```

```
    else if (BMI >= 18.6 && BMI <= 24.9)
```

```
    {
```

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

```
    }
```



```
else if (BMI >= 25 && BMI <= 25.9)
```

```
{
```

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

```
}
```

```
else if (BMI >= 30 && BMI <= 34.9)
```

```
{
```

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

```
}
```

```
else if (BMI >= 40)
```

```
{
```

```
    printf ("\n Morbidity Obese");
```

```
}
```

```
}
```

```
}
```

C exp3bmi.c > main()

```
1
2  #include <stdio.h>
3
4  int main() {
5      float weight,height;
6      float BMI;
7      printf("Enter the weight in kgs ");
8      scanf("%f",&weight);
9      printf("Enter the height in mts ");
10     scanf("%f",&height);
11     BMI=(weight/(height*height));
12     printf("The BMI is: %f",BMI);
13     {
14         if (BMI<15)
15         {
16             printf("\nStarvation");
17         }
18         else if(BMI>=15.1 && BMI<=17.5)
19         {
20             printf("\nAnorexic");
21         }
22         else if(BMI>=17.6 && BMI<=18.5)
23         {
24             printf("\nUnderweight");
25         }
26         else if(BMI>=18.6 && BMI<=24.9)
27         {
28             printf("\nIdeal");
29         }
30         else if(BMI>=25 && BMI<=25.9)
31         {
32             printf("\nOverweight");
33         }
34         if(BMI>=26 && BMI<=29.9)
```



```
34     else if(BMI>=30 && BMI<=39.9)
35     {
36         printf("\nObese");
37     }
38     else if(BMI>=40)
39     {
40         printf("\nMorbidly Obese");
41     }
42 }
43 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS



```
> cd "c:\Users\abiga\OneDrive\Desktop\Absproj\" ; if ($?) { gcc exp3bmi.c -o exp3bmi
} ; if ($?) { .\exp3bmi }
Enter the weight in kgs 62
Enter the height in mts 1.6
The BMI is: 24.218750
Ideal
PS C:\Users\abiga\OneDrive\Desktop\Absproj>
```

OneDrive - Personal
Online

Ln 39, Col 6 Spaces: 4 L11:10:10 AM 11/11/2023 Finish Setup