**COSC 221: STRUCTURED PROGRAMMING**

1. Table below shows the criteria used by the national government to allocate bursaries for college students. Use it to answer the questions that follows:

|  |  |
| --- | --- |
| **Student category** | **Amount allocated** |
| Needy | 40,000 |
| Special | 40,000 |
| Single | 30,000 |
| Marginalized | 35,000 |
| Other | 10,000 |

Write a program in C programming that would prompt a user to enter student category. The program then outputs the corresponding amount.

1. Write a program that reads a person’s height and weight respectively and calculates the boody mass index (BMI) using the formula *bmi=weight/height2*. The program should display the *BMI* and a corresponding message based on the criteria below:

Table 2

|  |  |
| --- | --- |
| **BODY MASS INDEX(BMI)** | **OUTPUT MESSAGE** |
| Below 20 | Lower than normal weight |
| 20-25 | Normal Weight |
| 26-30 | Overweight |
| 31-40 | Obese |
| Above 40 | Extreme obese |

1. An international compay dealing with beauty products pays a commission to the sales workers based on the criteria shown in the table below. Use it to answer the question that follows.

|  |  |
| --- | --- |
| Sales volume | commission |
| 5000 and over | 15% |
| 4000-4999 | 12% |
| 3000-3999 | 9% |
| 2000-2999 | 6% |
| Less than 2000 | 3% |

Write a C program that allows a user to enter the name of the sales agent and the sales volume made. The program should then compute the commission and output the sales agent and the commission.