



Class Test-02

Total Marks: 15

Time: 30 min

1. In a factory there are three categories of Employees: A, B, C. The manager announced a bonus for the employees who have a work experience of more than 18 years and family member is more than 4 members. He is also generous to some of his employees who have a larger family. Thus, He has declared the bonus for the workers of 'B' and 'C' categories who has a family member more than 8 or total family income per month is less than 1500.75 BDT. However, if an employee is from 'A' category, he can avail the bonus having a family member of more than 6 person. Now you need to automate the system by writing a code to take following inputs from a user and notify him whether he is eligible for the bonus.

- Category (Character)
- Work experience (integer)
- Family member (integer)
- Family income per month (Float)

10

| Sample input | Sample output |
|--------------|----------------------------|
| A 11 6 1500 | Will Receive the Bonus |
| B 6 9 1500 | Will Not Receive the Bonus |

2. The shipment unit of at Platinum Cement Factory has packages of various weights. The packages are firstly loaded onto a dock and then transported via different vehicles according to their weight. Currently, laborers manually weigh each package and decide which loading dock a package will go to and then which transport it'll get loaded into. But as the newly recruited system automation engineer, you figured you could automate this process with the use of simple conditional logic! Based on their weight, packages are sorted into the loading dock and later onto the transports in the following way:

10



UNITED INTERNATIONAL UNIVERSITY
Department of Computer Science and Engineering (CSE)

| Module (Input from the user) | Weight Input | Output |
|--|-----------------|----------------|
| Loading Dock (User Input: "L" or "l") | 20-60 | Loading Dock 1 |
| | 61-80 | Loading Dock 2 |
| | 81-100 | Loading Dock 3 |
| | 101-150 | Loading Dock 4 |
| | Any other Value | Wrong weight |
| Transportation (User Input: "T" or "t") | 20-40 | Mini-van |
| | 41-80 | Van |
| | 81-120 | Mini-truck |
| | >120 | Truck |
| | Any other value | Wrong weight |
| Any other value | Wrong Input | |