

Example of all types of variablesQualitative Variable :-

- ① Gender
- ② Nature
- ③ Skills
- ④ Beauty
- ⑤ Happiness

Discrete Variable:

- ① Number of Animals
- ② Amounts of money
- ③ Numbers of products
- ④ Burning Calories
- ⑤ Number of Students

Quantitative Variable:

- ① Age
- ② Height
- ③ Weight
- ④ Number of Students
- ⑤ Population

Continuous

Discrete Variable :-

- ① Age
- ② Time
- ③ Speed
- ④ Temperature
- ⑤ Height

18-36264-1

Serial - 3

Variable: Characteristic which varies from one unit to another.

Types of Variables:

Qualitative Variable: Variable that cannot be measured by numerical figure.

- \* gender
- \* religion.
- \* color.

Quantitative Variable: Variable which are measured by numerical figure.

\* time

\* age

\* weight

Discrete variable: Variable that accepts only integer values.

example: Number of specified object/group

Continuous Variable: Variable that take both integer and fractional value.

## Computational Statistics and Probability

Khan Moshar Rizwan  
18-3633-1

A variable is a characteristic which varies from one unit to the next.

### Types of Variables

- Qualitative variables or categorical variables cannot be measured by a numerical figure like gender, religion etc.
- Quantitative variables can be measured by a numerical value like weight, age and time etc.

Quantitative variables can be further classified as Discrete variables and Continuous variables.

Discrete variables are variables which only can only be a whole integer like the number of customers in a store.

Continuous variables are variables which can be either an integer or a fractional number like weight, height, speed etc.

Name: Zubair Chowdhury Serial: 15

ID: 19-41241-2

Assignment 1

Sec: O

Qualitative variable: Name, Blood group

Gender, Color, Religion

Quantitative variable: CGPA, Height

IBS, Age, time, Speed

Discrete variable: No of students at

AIUB, No of Faculty, Number of  
Computer, How many course I take

ID.

Continuous variable: CGPA, height

time, temperature, weight

# Assignment = 01

Topic :- Variables

Name: Joy Matubber

ID: 20-41959-1

Section = 0

Serial No: - 06

① Qualitative:

- ① Name.
- ② Nationality.
- ③ Religion.
- ④ Gender.
- ⑤ District.

② Quantitative: ① CGPA, ② Salary, ③ Age,

① Discrete: ④ Rank ⑤ Time

- ① Serial No.
- ② The Number of Lights in my room.
- ③ Total students in our section.
- ④ The Number of people in our country.
- ⑤ Number of courses in my curriculum.

② Continuous:

- ① CGPA.
- ② Age.
- ③ Weight.
- ④ Height
- ⑤ Distance.

ID: 20-92006-1  
Name: Jawad Mohammad

Serial: 07

Qualitative Variable: i) Address, ii) ID, iii) Occupation  
iv) Name, v) colour.

Quantitative variable: i) car, ii) age, iii) money,  
iv) speed, v) page

Discrete variable: i) Pets, ii) ~~student~~ student,  
iii) station, iv) TV, v) ~~coin~~ coin

continuous variable: i) eyes, ii) weight, iii) money  
iv) time, v) speed.

Abu Taher Mahim Sarkar, ID :- 20-42042-I

### "Types of variables"

- # Qualitative Variable :- Religion, Blood Group, color, marital status, profession
- # Quantitative variable :- Age, Height, CGPA, speed, Roll Number.
- # Discrete Variable :- Roll Number, Number of ATM booth, Student, Fan, Number of University.
- # Continuous Variable :- Age, Height, weight, CGPA, speed.

Name: Rifath Bin Mashnur

ID: 20-42079-1

### Assignment -1

- 1) Qualitative Variable:
  - \* skill      \* kindness
  - \* friendship      \* Anger
  - \* Pain
- 2) Quantitative Variable:
  - \* Age      \* Water      \* Velocity
  - \* temperature      \* count of days
- 3) Discrete Variable:
  - \* Number of chair in a room
  - \* Number of People
  - \* Number of ball in a ball bearing
  - \* Number of Page in a book.
  - \* Number of students in a class.
- (4) Continuous Variables:
  - \* Temperature      \* length      \* gravity
  - \* Mole per Kg      \* speed of light.

Name : Md. Altabur Rahman

ID : 20 - 42107 - 1

## Assignment - 1

### 1. Qualitative Variable :

- ⊗ Skill      ⊗ kindness      ⊗ friendship
- ⊗ Anger      ⊗ pain

### 2. Quantitative Variable :

- ⊗ Age      ⊗ water      ⊗ Velocity      ⊗ temperature
- ⊗ Count of days.

### 3. Discrete Variable :

- ⊗ Number of chair in a room      ⊗ Number of people
- ⊗ Number of ball in a ball bearing
- ⊗ Number of page in a book      ⊗ Number of students in a class

### 4. Continuous Variables :

- ⊗ Temperature      ⊗ length      ⊗ gravity
- ⊗ Mole per kg      ⊗ speed of light

## Assignment - 1

Md. Mamunur Rahman Moon ; 20-42439-1

Qualitative variables: (i) Gender (ii) Religion (iii) Color  
(iv) Name (v) Season

Quantitative variables: (i) Age (ii) Height (iii) Time  
(iv) Force (v) Band-width

Discrete variable: (i) Number of students ~~(continuous)~~  
(ii) Number of cars  
(iii) Number of sculptures  
(iv) Number of classrooms.  
(v) Number of laptops.

Continuous variable: (i) Age

(ii) Height

(iii) Weight

(iv) Force

(v) Volume

Name: Zaid Amin Rawfin

ID: 20-42459-1

Assignment: 1

Serial: 12

Qualitative Variable:

Knowledge, Skill, Happiness, Fear, Beauty etc.

Quantitative Variable:

Price, Temperature, Distance, Income, Expenditure.

Discrete Variable:

Numbers of Universities, Faculties, Students  
Laboratories, Cafeterias etc.

Continuous Variable. CGPA, Score, Price,  
Temperature, Distance etc.

Name: Md. Tanvir Hossen.

Sec : O

ID: 20-42488-1

SL: 4313

Qualitative variable:-

- ① Marital Status
- ② Gender
- ③ Level of Education
- ④ Smells
- ⑤ Beauty

Quantitative variable:

Quantitative variable:-

- ① Number of students in a class.
- ② Number of square feet in a house.
- ③ Age
- ④ Population size of a city
- ⑤ Height

Discrete Discrete variable:-

- ① Number of students in a class.
- ② Number of sweets in a packet
- ③ Amounts of money.
- ④ Voter in an election.
- ⑤ Number of ATM booth

Continuous variable:-

- ① Age
- ② Temperature
- ③ Speed
- ④ Time
- ⑤ Volts of electricity

Name: MD. Shajidul Islam Sadhu  
ID: 20-42621-1; Serial: 12

Example of Qualitative variable: Variables that are not numerical. ex. ① Religion, ② Profession, ③ Cities, ④ hair color.  
⑤ Political group.

Example of Quantitative Variable: A variable that has numerical representation. ex: ① Height, ② Weight,  
③ Age, ④ I.D. ⑤ Number of item in a shop.

Example of Discrete Variable: A quantitative variable that only hold integer values. ex: ① Number of building in AIUB, ② Number of books in library, ③ Number of offered courses in fall 21, ④ Number of faculty in AIUB, ⑤ Number of left ~~at~~ at 'D' building.

Example of Continuous Variable: The variable that hold both integer and fractional number. ex ① Speed,  
② Electricity used in a house, ③ Distance, ④ Suggess rate for a task, ⑤ Balance in a bank account.

Name: Sidul Islam Sohag

ID: 20-42668-1 , Section: O , Serial-15

Example of all types of variable

# Qualitative Variable:

1) Happiness, 2) Beauty, 3) Name, 4) Skills,  
5) Religion.

# Quantitative Variable:

1) Age, 2) Time, 3) Year, 4) Speed, 5) ID

# Discrete Variable:

1) Number of students in a Aiub,  
2) Number of Product,  
3) Amounts of Money.  
4) Number of ATM booth.  
5) Number of Animals

# Continuous Variable:

1) CGPA, 2) Height, 3) Temperature,  
4) Volts of Electricity, 5) Distance.

JANNATUL FERDOSE TANISHA

20-42669-1

Serial No.: 16

Sec: [0]

## Assignment NO. 1:

### 5 Examples of Qualitative Variable:

- i) Eye colors
- ii) Tribe
- iii) Hunger
- iv) Respect
- v) Creativity

### 5 Examples of Quantitative Variable:

- i) The number of family members
- ii) Numbers of students in a class
- iii) Height
- iv) Age
- v) Distance

### 5 Examples of Discrete variables:

- i) Number of citizens of a country
- ii) Number of Books
- iii) Cars
- iv) A vacant position
- v) Number of computers in a lab.

### 5 Examples of Continuous variables:

- i) Time
- ii) Distance
- iii) Height
- iv) Temperature
- v) CGPA