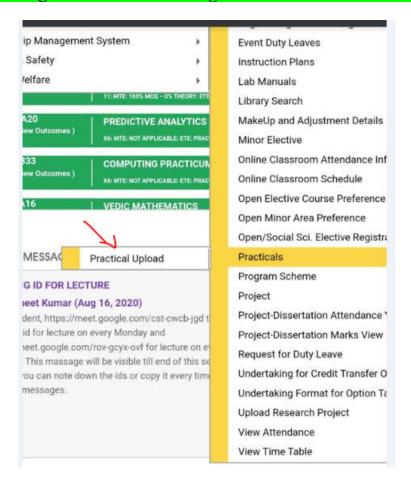
Path to submit Assignment-3: UMS Navigation --> Practicals --> Practical Upload



Assignment-3 Set-I (For Roll Number 01 to 10) COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020 Read the following instructions carefully before attempting the Assignment.

1) Explanations must be in your words, do not copy from any resources.

- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

- Q1: Write a swift program to create the Triangle class with three sides and function to calculate area and perimeter. In a triangle, the sum of any two sides is greater than the other side. The Triangle class must adhere to this rule. Represent error using IllegalTriangleException enum, and throw an error if a triangle is created with sides that violate the rule and then write the code to handle it. [20 Marks]
- Q2: What is "Copy-on-write" in Custom Types? Explain with the example by implementing Stack data structure. [10 Marks]

Assignment-3

Set-II (For Roll Number 11 to 20) COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020

Read the following instructions carefully before attempting the Assignment.

- 1) Explanations must be in your words, do not copy from any resources.
- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

5) I will **not accept** Assignment through **email or lpu live**.

- Q1: Write a swift program to define the Rectangle class with four sides and function to calculate area and perimeter. In a Rectangle, all sides should be positive to calculate the area of rectangle. Represent error using IllegalSideException enum to throw an error if a rectangle is created with sides having negative value and then write the code to handle it. [20 Marks]
- Q2: What is "Recursive data types for reference types" in Custom Types? Explain with the suitable example. [10 Marks]

Assignment-3 Set-III (For Roll Number 21 to 30) COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020

Read the following instructions carefully before attempting the Assignment.

- 1) Explanations must be in your words, do not copy from any resources.
- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

- Q1: Write a swift program to define the Circle class with radius and function to calculate area and perimeter. Represent error using NegativeRadius enum. In Circle class write the code to deals with negative radius error. Your program should display a message that informs the user of the wrong input before exiting. [20 Marks]
- Q2: What is "Selecting a closure based on results" and "Changing functionality" in closure? Explain with the suitable example. [10 Marks]

Assignment-3 Set-IV (For Roll Number 31 to 40)

COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020

Read the following instructions carefully before attempting the Assignment.

- 1) Explanations must be in your words, do not copy from any resources.
- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

5) I will **not accept** Assignment through **email or lpu live**.

- Q1: Write a swift program to define the Loan class to throw error if the loan amount, interest rate, or number of years is less than or equal to zero. Represent error using LoanError enum. Your program should display a message that informs the user of the wrong input before exiting. [20 Marks]
- Q2: How to use closures with swift's array algorithms? Explain with the suitable example. [10 Marks]

Assignment-3 Set-V (For Roll Number 41 to 50) COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020

Read the following instructions carefully before attempting the Assignment.

- 1) Explanations must be in your words, do not copy from any resources.
- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

- Q1: Write a swift program to create class StudentMarks generic type has function to calculate CGPA of student and print student is eligible for placement or not on the basis of criteria having minimum CGPA of particular branch. [20 Marks]
- Q2: What is Dynamic member lookup? Write a swift program to create CricketTeam having Dynamic member lookup concept. [10 Marks]

Assignment-3

Set-VI (For Roll Number 51 to 60) COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020

Read the following instructions carefully before attempting the Assignment.

- 1) Explanations must be in your words, do not copy from any resources.
- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

5) I will **not accept** Assignment through **email or lpu live**.

- Q1: Write a swift program to create a class Library and handle error related to the library management system. Suppose book is not available then throw and handle error. You have to handle at least four errors. Represent error using LibraryError enum. [20 Marks]
- Q2: What are Multidimensional subscripts in Custom Subscripting? Explain with the suitable example. [10 Marks]

Assignment-3 Set-VII (For Roll Number 61 onwards) COURSE CODE: INT405

COURSE NAME: COMPUTING PRACTICUM-III

Max. Marks: 30 Last date of submission: 1stth November, 2020

Read the following instructions carefully before attempting the Assignment.

- 1) Explanations must be in your words, do not copy from any resources.
- 2) Solutions must be unique for each student.
- 3) You have to include **screenshot of output** in questions 1.
- 4) You have to submit pdf through UMS containing questions and solutions of your given set for Assignment.

- Q1: Write a swift program to create class EmployeeIncome generic type has the function to check whether employee income is taxable or not. (Note: Income should be taxable above 300000 Rs). Employee has different source of income like salary, private tuition, some side business run by their staff members etc. [20 Marks]
- Q2: What are External names for subscripts in Custom Subscripting? Explain with the suitable example. [10 Marks]