

# HOUR OF CODE

**EVENT DATE : 20 February 2020**

Acquiring Coding Knowledge is an essential thing to develop an individual. Hour of code is an event purely based on testing the coding skills of the students and improve it.

*"If happiness is a goal, then coding should be a priority!"*

## **EVENT DESCRIPTION:**

- The event was conducted on 20.02.2020 starting from 3.00 PM to 4.00 PM.
- This event was conducted exclusively for second years in order to develop the programming skill of the students in JAVA.
- The constraint given for the event is that they should code only in JAVA. And within one hour, they need to solve six questions. The one who solves the maximum number of questions by passing maximum testcases will be awarded as the winner.
- Coding every day in an online platform(Hackerrank) is a difficult task and no body will have that intention to learn new programs daily. But if it is conducted in the form of contest, for sure they will participate to learn more.
- In order to create enthusiasm among the students, we organized the event Hour of code.
- The students will have the opportunity to face new programming problems and increase their thinking capability.

- Nearly 150 students from both CSE and IT departments were participated in this event.
- The main objective of this event is to equip the students with more coding knowledge and improve their skills!

Url : <https://www.hackerrank.com/acm-hour-of-code>

### EVENT PICTURES:



## **CODING QUESTIONS:**

- Anagrams
- Sort
- Prime number
- Exception Handling
- Hourglass
- Java subarray (negative sum of an array)

## **WINNERS:**

It was so difficult for us to judge the students because each and everyone are equally talented and competed very well. Among those intelligent students we selected three shining stars who performed in an extraordinary manner.

### **1. ASHWIN.R - BE CSE**

18 05 004

Among all the participants, he solved the highest number of problems i.e.,3 (Anagram, Exception, Prime number). The logic he tried for the problems passed all the testcases and ranked first in the leaderboard which made him to win the first prize.

### **2. KIRUPHASANKARAN.N – BE CSE**

18 05 021

He completed two problems (Anagram and Hourglass). The problem "Hourglass" passed all the testcases and he was the one who tried the hourglass problem where most of the students didn't tried the problem. And in the placement point of view, hourglass is one of the important questions. It made him unique to win the second prize.

### 3. GOKULAPRIYA.D – B.TECH IT

18 07 019

She completed two problems (Prime number, exception handling). Since the complexity of the problem she solved is easy comparing to the one who won second prize. She solved the problem "Exception handling" which one one solves which made her to win the third prize.

The scale of event's success was clearly visible from the overwhelming responses from the students. The event clearly defined a development among the individuals by gaining more coding knowledge.

"Declare variables Not war!

Execute programs Not people!"

# LONG PROGRAMMING

**EVENT DATE : 27 February 2020**

However programming is essential, applying the suitable data structures for the problem is also important.

So, long programming is the contest which is conducted to enhance their programming skill and also to develop the practical knowledge towards data structure.

*“Any fool can write code that a computer can understand. Good programmers write code that humans can understand.”*

## **EVENT DESCRIPTION:**

- The event was conducted on 27.02.2020 starting from 2.00 PM to 4.30 PM.
- This event was conducted exclusively for third years in order to enhance their knowledge in programming and data structures.
- Nearly 60 students from both CSE and IT departments were participated in the event.
- They are given a set of two questions in which they need to choose one problem and solve accordingly.
- The evaluation was based on how they approached the problem, modularity of the code, naming conventions.
- Since most of the companies like jivox, zoho use long programming as one of the rounds for recruitment, the senior students from final year were asked to evaluate the code.

- The students will have the opportunity to face new programming problems and increase their thinking capability.
- The main objective of this event is to equip the students with more coding knowledge and improve their skills!

### EVENT PICTURES





COIMBATORE INSTITUTE OF TECHNOLOGY  
(A Government Aided Autonomous Institution)  
COIMBATORE - 689014



ACM STUDENT CHAPTER OF CIT  
LEARNING PROGRAMMING - III YEAR CSE, IT



ACM STUDENT CHAPTER OF CIT  
EVALUATION SHEET

NAME:

DEPARTMENT:

REGISTER NO:

SECTION:

1.

1. Design a system to compute call fees for the cab system. The user can enter (C), continue (C), wait (W) and end (E) the ride. The call fare is calculated based on the time travelled rather than distance. The call fare will be Rs. 1 for each per minute and Rs. 0.10 per minute for waiting time. The tax will be 10% of the total cost and base fare will be Rs. 10.

INPUT:

R (10:00), W (10:20), C (10:30), W (10:35), C (10:40), R (10:45)

CALCULATE:

Rs. 46.0

EXPLANATION:

$20 \times 1 + 4 \times 0.10 + 10 \times 1 + 2 \times 0.10 + 10 \times 1 + 5 \times 0.10 = 46.0$  base fare=10.0

100

2. Develop a calendar service application. The application should contain following modules:

a. Registration

b. Login

c. Adding an event

d. Deleting an event

e. Printing the events week wise, month wise, year wise.

The user should register with username and password. In login module, the user should provide username and the password should match with the registered password. The user should add an event in a particular date. The user may add management of this event in a particular date. Otherwise it should show a message that "the user is not allowed to add the event". The user is allowed to delete an event. The application should also provide service to display the events week wise, monthly and yearly.

APPROACH		
TOWARDS THE PROBLEM	20	
LOGIC	20	
INPUT FORMAT	10	
HOUR TO MINUTE		
CONVERSION	30	
PRICE CALCULATION	20	

TOTAL: / 100

2.

DATA STRUCTURES		
USED AND APPROACH	10	
TOWARDS THE PROBLEM		
REGISTRATION AND	20	
LOGIN MODULE		
ADDING AN EVENT	20	
DELETING AN EVENT	20	
PRINTING THE EVENTS	30	

TOTAL: / 100

## WINNERS

Among the students participated, the winners were concluded based on the time taken for them to complete the problem, the readability of the code.

### 1. ASWIN.M – B.E., CSE

17 05 069

The time he had taken to complete the problem was 60 minutes. The naming conventions in the program was appreciable. The programming language used was JAVA. He used regular expressions for splitting the user input.

### HARI HARAN.G – B.E., CSE

17 05 076

The time he had taken to complete the problem was also 60 minutes. The language he used was python. He used various modules for fare calculation and time conversions. The usage of various data structures in his code was also appreciable.

2. DEEPIKA.A.P – B.TECH IT

17 07 013

The time she had taken to complete the problem was 100 minutes. The language she had chosen was C. She approached the problem in a different manner. She also had the dynamic thinking capability and changed some of the changes which was told by the senior students.

3. JAYANANDHANA.E- B.E., CSE

17 05 014

The time she had taken to complete the problem was 120 minutes. The language she had chosen was C. She used string for getting the input and used simple array references for splitting the input. Eventhough the code didn't contain any modularity, the naming conventions were in the understandable format.

*“The most important property of a program is whether it accomplishes the intention of its user.”*