

Question 01

Which datatype I will be using if I want to store the following variables in C.

- Name of a Person
- Age of a Person
- Salary of a Person
- Name of Days (As calendar shows one alphabet).
- Birth Year of a Person
- 24.856997428563016, 67.26486267792023
 - (These are the real Latitude and Longitude of our FAST NUCES Karachi Campus)

Question 02

Given an employee's gross salary of the month and tax rate, calculate the Net salary. Make sure to play the beep twice before you tell the employee his final salary.

Question 03

Calculate the area of a triangle given its base and height are given. Display the output along with the provided input. Make sure your output is pretty, users don't like ugly screens.

Base of the Triangle: 20

Height of the Triangle: 15

Area of the Triangle: 150

Question 04

Sindh Government has reached you to write their application which inputs a person name (3 alphabets only), age, gender, and vaccination status. This information is displayed on the screen for verification purposes in the following format. Please write a C program to obtain this output.

Name: AKK

Age: 31 years old

Sex: Male

Vaccinated: Yes

Question 05

A physics teacher is very excited to show his students some quick calculation of distance given the initial velocity, time, and acceleration. He knows your ability to write an awesome application in C which can provide a pretty representation of the given and found values. Provide a precise value up to 4 decimal places.

Given:

Initial Velocity: 0.0 m/s

Acceleration: 2.0 m/s*s

Time: 10.0 s

Solution:

Distance Covered: 100.00 m

Question 06

In the 2019 entrance test of FAST NUCES 6200 applicants registered for the test. However, only 650 were admitted to the University. In the year 2020, the applications received by FAST NUCES reached 8200 and 800 applicants were admitted this year. The Director of the campus wants to know which year did a higher percentage of the students passed the test? You are requested to write a C application that will provide the solution.

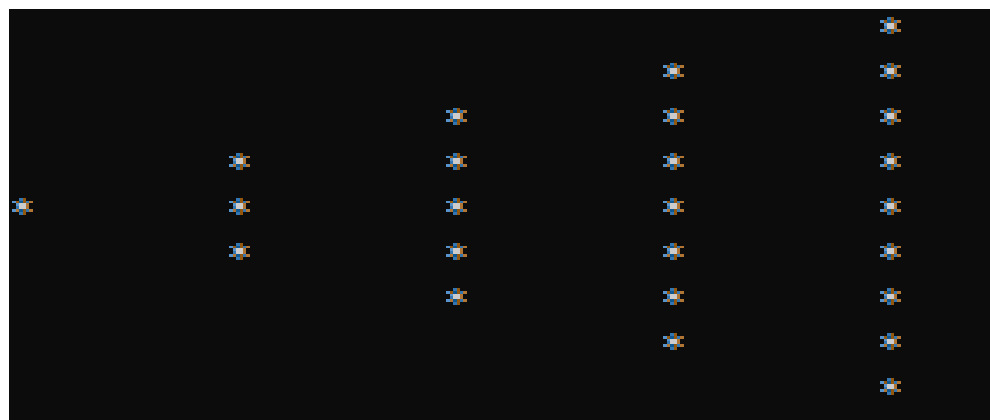
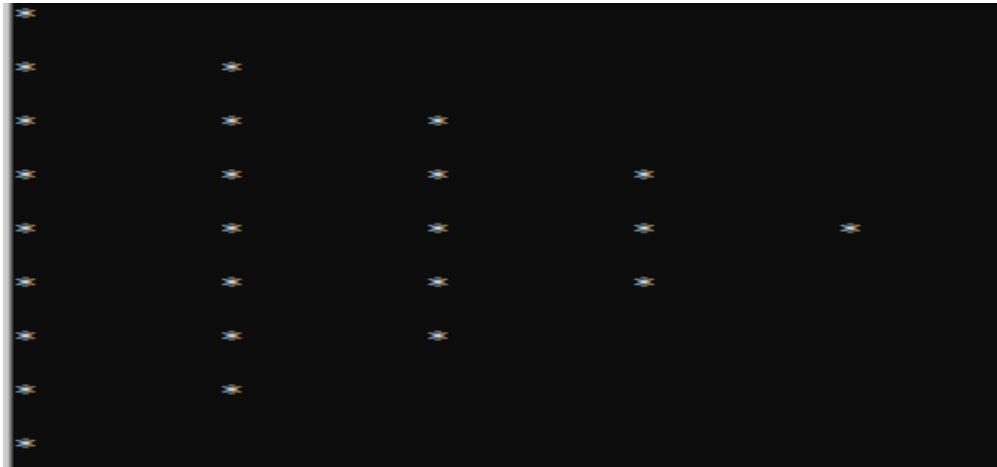
Question 07

Calculate the value of E using the following expression:

$$E = 17x - 20y - 4(x + 9y)$$

Question 08

Write a program to print the following * patterns using escape sequences.



Question 09

Write a program to print the following * patterns using escape sequences.

