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|  | | Shaheed Zulfikar Ali Bhutto Institute of Technology | | | | |  | |
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|  | | | | Project Report by Group 5DEEPA  ALISHA ANWAR SYED RAZA ALI28/12/2023—Fundamentals of Programming—Usama Khalid Qamber Ali |  | | | |
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Songs Playlist

Question 1:

This program is designed to print a pattern using numbers and asterisks. Rows defined to 7.

The outer loop iterates through each row from 1 to the specified number of rows. Inside this loop, there are two nested loops:

1. The first nested loop prints numbers in ascending order, starting from 1 up to the current row number. For example, in the first row, it prints "1", in the second row, it prints "12", and so on.
2. The second nested loop prints asterisks (\*). The number of asterisks in each row is determined by subtracting the current row number from the total number of rows. This way, in the first row, there are 6 asterisks, in the second row, there are 5, and so on.

After printing the numbers and asterisks for a row, the program moves to the next line to start a new row. The process repeats until the specified number of rows is reached.

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Question 2

This C program simulates a simple lottery game where the player selects a certain number of digits, and the program generates random winning digits.

Array Initialization:

Random Number Generation:

Player Input:

Digit Comparison:

Display Results:

In summary, the program allows the player to input their chosen digits and revealing the number of matches with the randomly determined winning digits.

Question 3:

This C program creates a simple playlist system with the use of a Song structure that holds information about the song, artist, title, duration, and ID. The program includes features for creating and adding music, loading and saving the playlist to and from a file, and playing certain songs or the full playlist. The main interface shows the user a menu where they can add music, play songs, view the playlist, and end the program to interact with the playlist system. Additionally, the program makes sure that the playlist is continuous by loading it from a file at the beginning and saving it back to the file before closing.