United International **University** (**UIU**)



Dept. of Computer Science and Engineering (CSE) Class Test #4 Year: 2023 Semester: Spring

Course: **CSE 1111** Title: Structured Programming Language (Sec – A/V) Marks: **20**

Time: 30 minutes

ame:	ID:

Q.1 Bangladesh Cricket Board (BCB) needs a "Player" Record System where it will store every player info-

Name, Birthdate (in ddmmyyyy integer format), RunsScored.

Design an appropriate structure named "Player" with proper variable types based on the specification. After that, perform the following operations.

- Create an array of structure that can store 100 players' information
- Take inputs from the user and populate into the array of structures
- Display all the players' Name and Birthdate based on RunsScored in descending order.

Solution:

```
#include<stdio.h>
struct Player{
    char name[100];
    int birth date;
    int run scored;
};
int main()
    struct Player p[100];
    // Taking Input into the array of structure
    for (int i=0; i<100; i++) {
        scanf("%s",p[i].name);
        scanf("%d",&p[i].birth date);
        scanf("%d",&p[i].run scored);
    }
    // Sorting array based on number of Runs Scored
    struct Player temp;
```

```
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for(int i=0;i<100;i++){
    for (int j=0; j<100; j++) {
        if(p[j].run_scored < p[j+1].run_scored){</pre>
            temp=p[j];
            p[j]=p[j+1];
            p[j+1]=temp;
        }
    }
}
// Displaying Player's Name, Birthdate and Runs Scored
for (int i=0; i<100; i++) {
    printf("%s ",p[i].name);
    printf("%d ",p[i].birth_date);
    printf("%d\n",p[i].run_scored);
}
return 0;
```

}

O.2 Write a C program that does the following:

- i. Create a function strConcat(....) that will accept three strings as parameters.
 It will append the first two strings into the third string (Don't use any built-in functions)
- ii. In main function:
 - Take two strings from user as inputs
 - Call the **strConcat()** function and display the third string.

Solution:

```
#include <stdio.h>
#include <string.h>
void strConcat(char str1[],char str2[],char str3[])
    int len1=strlen(str1);
    int len2=strlen(str2);
    // Add String1 to String3
    for(int i=0;i<len1;i++) {</pre>
        str3[i]=str1[i];
    }
    // Add String2 to existing String3
    for(int i=0;i<len2;i++){</pre>
        str3[len1+i]=str2[i];
    }
}
int main() {
   char str1[100], str2[100], str3[100];
   gets(str1);
   gets(str2);
   strConcat(str1,str2,str3);
   puts(str3);
    return 0;
}
```