# Bahria University,
## Karachi Campus



## COURSE: CSC -113 Computing Programming lab
## TERM: SPRING 2020, CLASS: BCE- 2A

**NAME = MUHAMMMAD UMAIR**        **ENROLMENT NO: (02-132192-004)**

## Submitted By:

## Eng sidra Mudassar
## Submitted To:

# Lab # 13

1.  Write a program in C++ using structures and print properties of 3 cell phone.

2.  Write a program in C++ using structures and print properties of 5 Books.

3.  Write a program in C++ using structures, take input of employees basic information and salary details (including basic salary (BS), house rent (HR), transport rent (TR), medical allowance (MA)) and print properties of 3 employees along with the total salary of that employee.

    FORMULA: Total Salary= (BS + TR + HR + MA)

**TASK 1:**

```cpp
8  #include<iostream>
9  using namespace std;
10 struct cellphone
11 {
12     char name[30];
13     char p1[30];
14     char p2[30];
15     char p3[30];
16 }c[3];
17 int main()
18 {
19     cout<<"***Properties of Cellphone***"<<endl;
20     for(int i=0;i<3;i++)
21     {
22     cout<<"Enter name of Cellphone= ";
23     cin>>c[i].name;
24     cout<<"Enter 1st property= ";
25     cin>>c[i].p1;
26     cout<<"Enter 2nd property= ";
27     cin>>c[i].p2;
28     cout<<"Enter 3rd property= ";
29     cin>>c[i].p3;
30     }
31     cout<<"***Cellphone Information***"<<endl;
32     for(int i=0;i<3;i++)
33     {
34     cout<<"Name of Cellphone= "<<c[i].name<<endl;
35     cout<<"1st property= "<<c[i].p1<<endl;
36     cout<<"2nd property= "<<c[i].p2<<endl;
37     cout<<"3rd property= "<<c[i].p3<<endl;
38     }
```

input

```
***Properties of Cellphone***
Enter name of Cellphone= SAMSUNG NOTE 10
Enter 1st property= Enter 2nd property= Enter 3rd property= HYPER FAST 5G CHIP
Enter name of Cellphone= Enter 1st property= Enter 2nd property= Enter 3rd property= SAMSUNG NOTE 10
Enter name of Cellphone= Enter 1st property= Enter 2nd property= SAMSUNG NOTE 10
Enter 3rd property= ***Cellphone Information***
Name of Cellphone= SAMSUNG
1st property= NOTE
2nd property= 10
3rd property= HYPER
Name of Cellphone= FAST
1st property= 5G
2nd property= CHIP
3rd property= SAMSUNG
Name of Cellphone= NOTE
1st property= 10
2nd property= SAMSUNG
```

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**TASK 2:**

```cpp
8  #include<iostream>
9  using namespace std;
10 struct books
11 {
12     char name[30];
13     char p1[30];
14 }b[5];
15 int main()
16 {
17     cout<<"***Properties of books***\n"<<endl;
18     for(int i=0;i<5;i++)
19     {
20     cout<<"Enter name of book= ";
21     cin>>b[i].name;
22     cout<<"Enter Publisher name= ";
23     cin>>b[i].p1;
24     }
25     cout<<"\n***BOOK PROPERTIES***\n"<<endl;
26     for(int i=0;i<5;i++)
27     {
28     cout<<"Name of Book= "<<b[i].name<<endl;
29     cout<<"Publisher Name= "<<b[i].p1<<endl;
30     }
31 }
```

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input

```
***Properties of books***

Enter name of book= APPLIED PHYSICS
Enter Publisher name= Enter name of book= UNKNOWN
Enter Publisher name= UNKNOWN
Enter name of book= APPLIED CALCULUS
Enter Publisher name= Enter name of book= UNKNOWN CPP PROGRAMMING
Enter Publisher name= Enter name of book= Enter Publisher name= UNKNOWN COMMUNICATION SKILLS UNKNOWN

***BOOK PROPERTIES***

Name of Book= APPLIED
Publisher Name= PHYSICS
Name of Book= UNKNOWN
Publisher Name= UNKNOWN
Name of Book= APPLIED
Publisher Name= CALCULUS
Name of Book= UNKNOWN
Publisher Name= CPP
Name of Book= PROGRAMMING
Publisher Name= UNKNOWN

...Program finished with exit code 0
```

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**TASK 3:**

```
8  #include<iostream>
9  using namespace std;
10 struct Employee
11 {
12     char name[30];
13     int bs,hr,tr,ma;
14 }e[3];
15 int main()
16 {
17     int t;
18     cout<<"***Employee Basic Information and Salary***"<<endl;
19     for(int i=0;i<3;i++)
20     {
21     cout<<"Enter name of Employee= ";
22     cin>>e[i].name;
23     cout<<"Enter basic Salary (BS)= ";
24     cin>>e[i].bs;
25     cout<<"Enter House Rent (HR)= ";
26     cin>>e[i].hr;
27     cout<<"Enter Transport Rent (TR)= ";
28     cin>>e[i].tr;
29     cout<<"Enter Medical Allowance (MA)= ";
30     cin>>e[i].ma;
31     }
32     cout<<"\n***Employee Information***\n"<<endl;
33     for(int i=0;i<3;i++)
34     {
35     cout<<"Name of Employee= "<<e[i].name<<endl;
36     cout<<"Basic Salary (BS)= "<<e[i].bs<<endl;
37     cout<<"House Rent (HR)= "<<e[i].hr<<endl;
38     cout<<"Transport Rent(TR)= "<<e[i].tr<<endl;
39     cout<<"Medical Allowance (MA)= "<<e[i].ma<<endl;
40     t=(e[i].bs+e[i].hr+e[i].tr+e[i].ma);
41     cout<<"Total Salary of Employee= "<<t<<endl;
42     cout<<"\n";
43     }
44 }
45
```

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# COMPUTING PROGRAMMIMG LAB

```
***Employee Basic Information and Salary***
Enter name of Employee= BASIT
Enter basic Salary (BS)= 250000
Enter House Rent (HR)= 5000
Enter Transport Rent (TR)= 5000
Enter Medical Allowance (MA)= 50000
Enter name of Employee= QASIM
Enter basic Salary (BS)= 200000
Enter House Rent (HR)= 30000
Enter Transport Rent (TR)= 5000
Enter Medical Allowance (MA)= 30000
Enter name of Employee= UMAIR
Enter basic Salary (BS)= 150000
Enter House Rent (HR)= 20000
Enter Transport Rent (TR)= 5000
Enter Medical Allowance (MA)= 50000

***Employee Information***

Name of Employee= BASIT
Basic Salary (BS)= 250000
House Rent (HR)= 5000
Transport Rent(TR)= 5000
Medical Allowance (MA)= 50000
Total Salary of Employee= 310000

Name of Employee= QASIM
Basic Salary (BS)= 200000
House Rent (HR)= 30000
Transport Rent(TR)= 5000
Medical Allowance (MA)= 30000
Total Salary of Employee= 265000

Name of Employee= UMAIR
Basic Salary (BS)= 150000
House Rent (HR)= 20000
Transport Rent(TR)= 5000
Medical Allowance (MA)= 50000
Total Salary of Employee= 225000




...Program finished with exit code 0
Press ENTER to exit console.
```

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