VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 3_COD_Easy_Pointers and Functions

Attempt : 1
Total Mark : 20
Marks Obtained : 20

Section 1 : Coding

1. Problem Statement

Harsh is a city planner who is tasked with predicting the population growth of his city over the next few years. He wants to create a program to predict the future population based on the initial population, growth rate, and time.

Assist Harsh in completing his task using pointers and the function Growth() to find the growth rate.

Formula: Predicted population = initial population * e growth rate * time

Answer

```
// You are using GCC
#include<stdio.h>
```

```c
#include<math.h>

int Growth(float *pp, float *gr,float *t){
    float pred;
    pred = (*pp)*(exp(*gr*(*t)));
    printf("%.2f",pred);
    return 0;
}
int main(){
    float pp,gr,t;
    scanf("%f",&pp);
    scanf("%f",&gr);
    scanf("%f",&t);
    Growth(&pp,&gr,&t);
    return 0;
}
```

Status : Correct   *Marks : 10/10*

2. Problem Statement

Anuj is working on a program to find the largest of two numbers by passing the addresses of the integers to the function.

Function Signature: int* findLarger(int*, int*)

Answer

```c
// You are using GCC
#include<stdio.h>
int*findLarger(int *a,int *b){
    if((*a)>(*b)){
        return a;
    }
    else{
        return b;
    }
}
int main(){
    int n;
    int n1;
```

```
    scanf("%d %d",&n,&n1);
    printf("%d", *(findLarger(&n,&n1)));
    return 0;
}
```

Status : Correct   **Marks : 10/10**