

## VIT - Vellore

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### BCSE102P\_Structured and Object Oriented Programming Lab\_VL2024250502365

#### VIT V\_Structured and OOP\_Lab 7\_COD\_Medium\_Abstract Classes

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement:

Alphabetics Game:

You have to enter four letters for each uppercase letter you will get 10 marks and for each lowercase letter, you will get -5 marks.

Write a program to calculate the total score.

Create a base class with a virtual method void game(). Define this method in the Derived class and calculate the total score.

#### Answer

```
// You are using GCC
#include<iostream>
using namespace std;
```

```

class game{
public:
    virtual void gamest(char a)=0;
};
class Play: public game{
public:
    int score;
    Play(){
        score=0;
    }
    void gamest(char a){
        if(a>='A' && a<='Z'){
            score+=10;
        }
        else{
            score-=5;
        }
    }
    void getscore(){
        cout<<"Score : "<<score<<endl;
    }
};
int main(){
    char x,y,z,s;
    cin>>x>>y>>z>>s;
    Play p;
    p.gamest(x);
    p.gamest(y);
    p.gamest(z);
    p.gamest(s);
    p.getscore();
    return 0;
};

```

**Status :** Correct

**Marks :** 10/10