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```
1 #include<iostream>
2 #include<string>
3
4 class Animal
5 {
6 private:
7     std::string name;
8     int age;
9     std::string species;
10 public:
11     Animal(){
12         name="Unknown";
13         age=0;
14         species="Unknown";
15     }
16
17     Animal(std::string aName, int aAge, std::string aSpecies){
18         name=aName;
19         age=aAge;
20         species=aSpecies;
21     }
22
23     void read_data(){
24         std::cout<<"Enter name of animal: ";
25         std::cin>>name;
26         std::cout<<"Enter age of animal: ";
27         std::cin>>age;
28         std::cout <<"Enter species of animal: ";
29         std::cin>>species;
30     }
31 }
```



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```
29         std::cin>>species;
30     }
31
32     void print_animal(){
33         std::cout<<"Name of animal: "<<name<<std::endl;
34         std::cout<<"Age of animal: "<<age<<std::endl;
35         std::cout<<"Species of animal: "<<species<<std::endl;
36     }
37 };
38
39 int main(){
40     //using default constructor
41     Animal dog;
42     std::cout<<"\n Details of default constructed dog: "<<std::endl;
43     dog.print_animal();
44
45     //using parameterized constructor
46     Animal cat("Max",5,"Cat");
47     std::cout<<"\nDetails of cat created with parameterized constructor: "<<std::endl;
48     cat.print_animal();
49
50     //creating object and reading data from user
51     Animal monkey;
52     std::cout<<"\nEnter details for a monkey: "<<std::endl;
53     monkey.read_data();
54     std::cout<<"\nDetails of monkey rentered by user: "<<std::endl;
55     monkey.print_animal();
56
57     return 0;
58 }
```

```
student@ac-computer-lab-pc:~$ gedit Assignment5.cpp
^C
student@ac-computer-lab-pc:~$ g++ Assignment5.cpp -o Assignment5
student@ac-computer-lab-pc:~$ ./Assignment5
```

Details of default constructed dog:

Name of animal: Unknown

Age of animal: 0

Species of animal: Unknown

Details of cat created with parameterized constructor:

Name of animal: Max

Age of animal: 5

Species of animal: Cat

Enter details for a monkey:

Enter name of animal: rocky

Enter age of animal: 4

Enter species of animal: monkey

Details of monkey entered by user:

Name of animal: rocky

Age of animal: 4

Species of animal: monkey

student@ac-computer-lab-pc:~\$

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