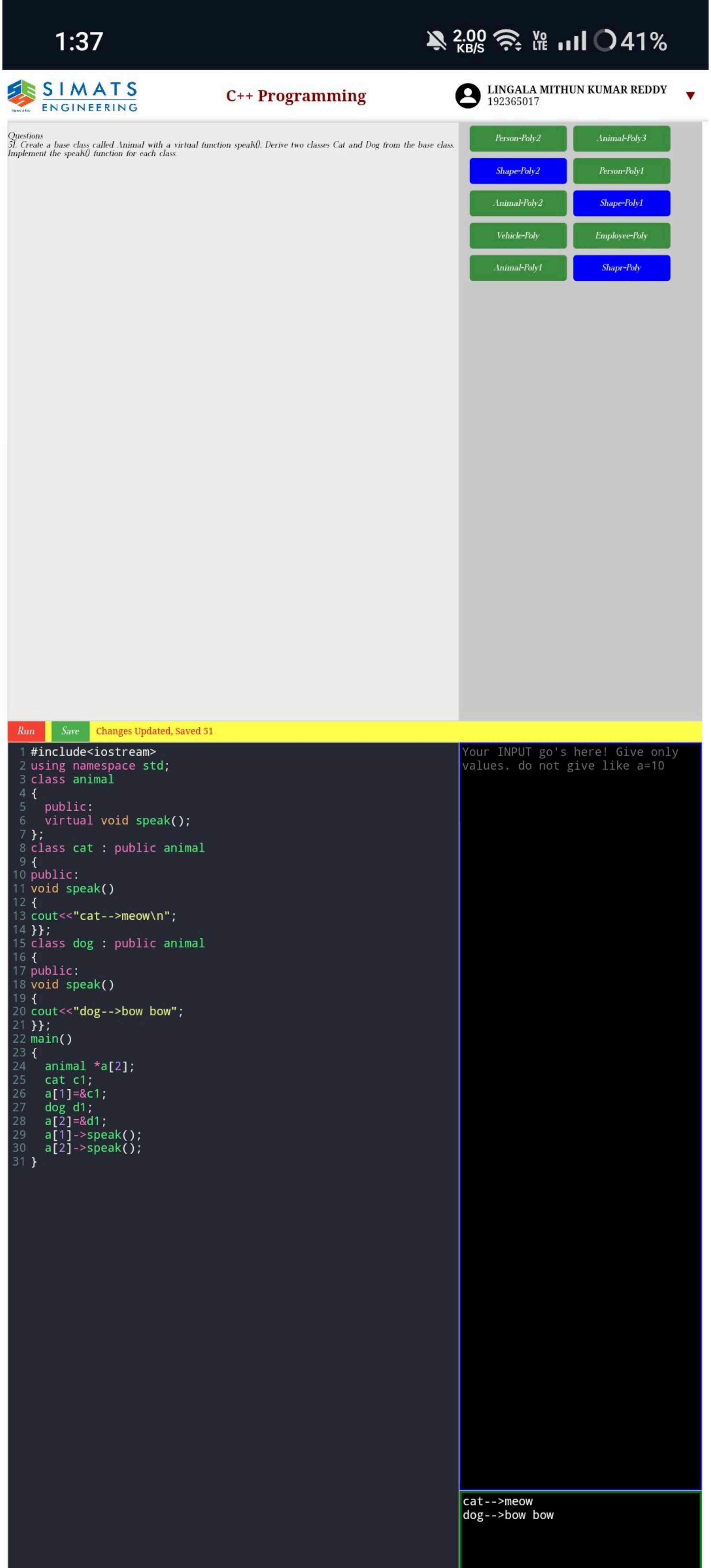

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SIMATS ENGINEERING

C++ Programming

LINGALA MITHUN KUMAR REDDY
192365017

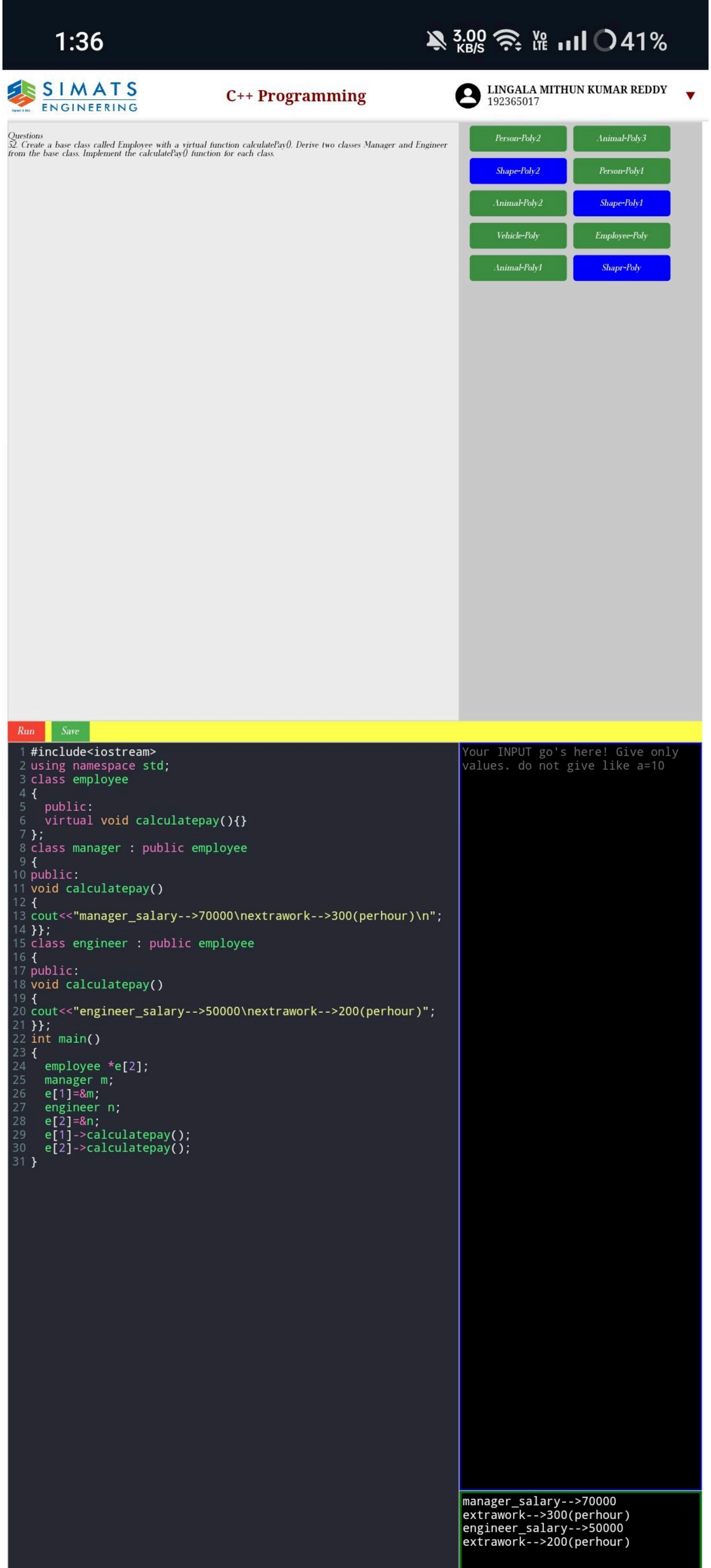
Questions
51. Create a base class called Animal with a virtual function speak(). Derive two classes Cat and Dog from the base class. Implement the speak() function for each class.

Changes Updated, Saved 51

```
#include<iostream>
using namespace std;
class animal
{
  public:
  virtual void speak();
};
class cat : public animal
{
public:
void speak()
{
cout<<"cat-->meow\n";
}};
class dog : public animal
{
public:
void speak()
{
cout<<"dog-->bow bow";
}};
main()
{
  animal *a[2];
  cat c1;
  a[1]=&c1;
  dog d1;
  a[2]=&d1;
  a[1]->speak();
  a[2]->speak();
}
```

Your INPUT go's here! Give only values. do not give like a=10

```
cat-->meow
dog-->bow bow
```



C++ Programming

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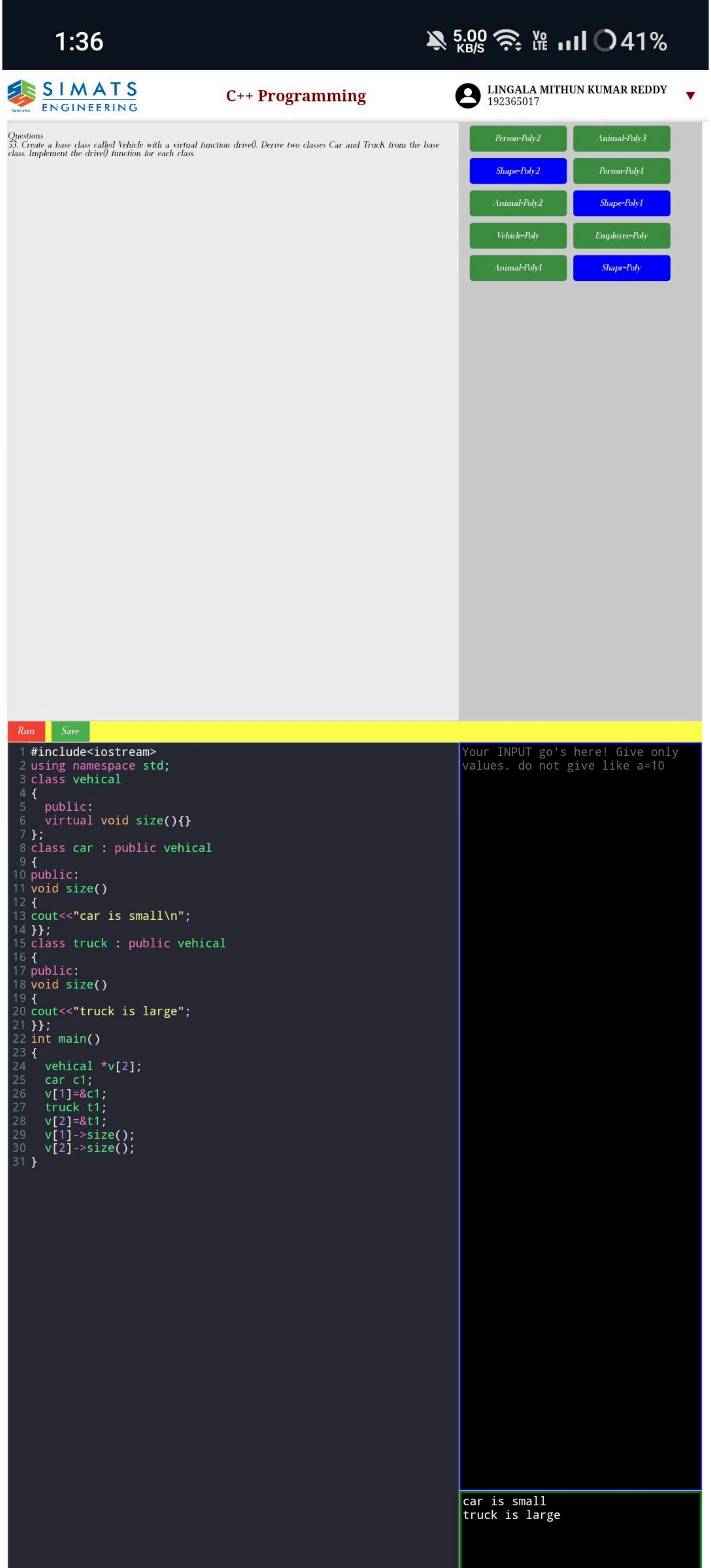
Questions
52. Create a base class called Employee with a virtual function calculatePay(). Derive two classes Manager and Engineer from the base class. Implement the calculatePay() function for each class.

```
#include<iostream>
using namespace std;
class employee
{
  public:
  virtual void calculatepay(){}
};
class manager : public employee
{
public:
void calculatepay()
{
cout<<"manager_salary-->70000\nextrawork-->300(perhour)\n";
}};
class engineer : public employee
{
public:
void calculatepay()
{
cout<<"engineer_salary-->50000\nextrawork-->200(perhour)";
}};
int main()
{
  employee *e[2];
  manager m;
  e[1]=&m;
  engineer n;
  e[2]=&n;
  e[1]->calculatepay();
  e[2]->calculatepay();
}
```

Your INPUT go's here! Give only values. do not give like a=10

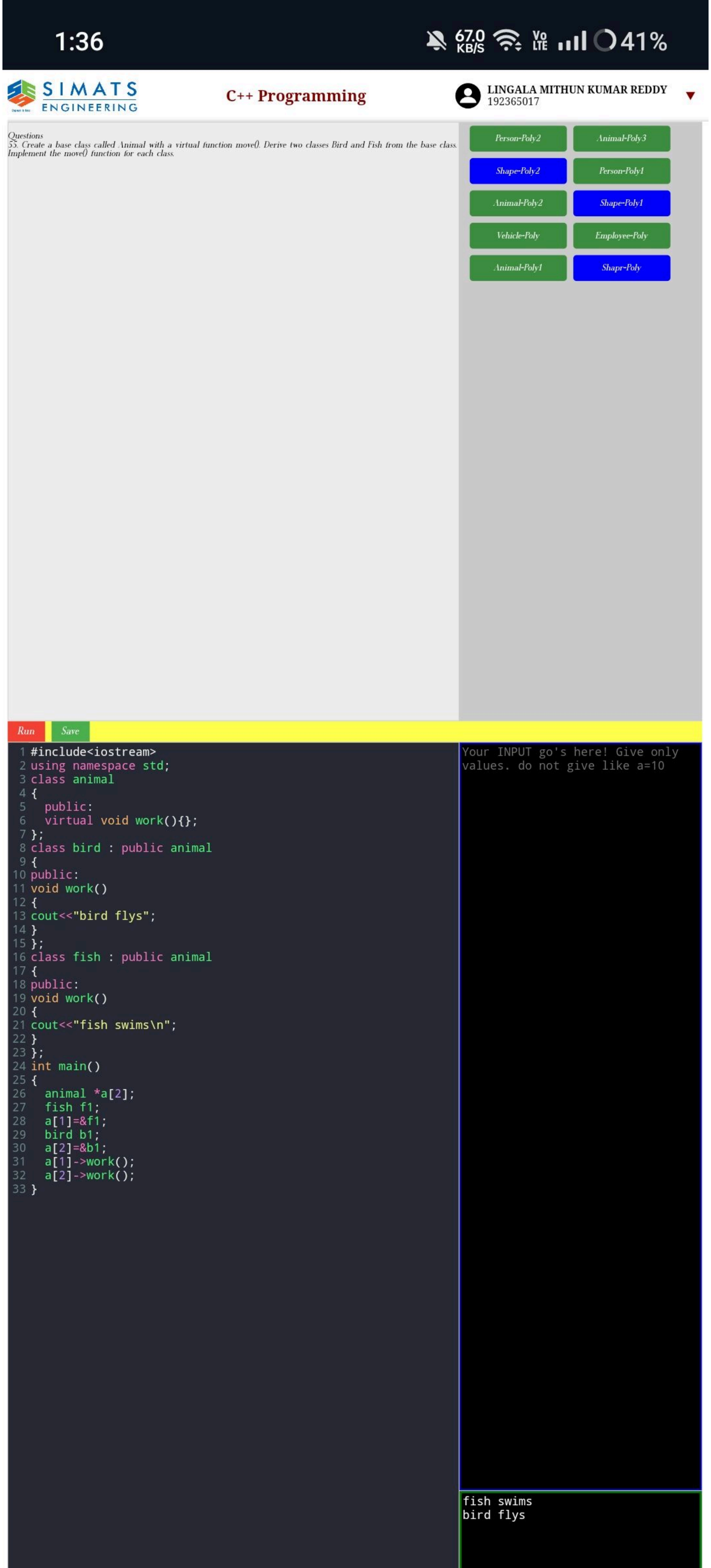
```
manager_salary-->70000
extrawork-->300(perhour)
engineer_salary-->50000
extrawork-->200(perhour)
```



Questions
53. Create a base class called Vehicle with a virtual function drive(). Derive two classes Car and Truck from the base class. Implement the drive() function for each class.

```
#include<iostream>
using namespace std;
class vehical
{
  public:
  virtual void size(){}
};
class car : public vehical
{
public:
void size()
{
cout<<"car is small\n";
}};
class truck : public vehical
{
public:
void size()
{
cout<<"truck is large";
}};
int main()
{
  vehical *v[2];
  car c1;
  v[1]=&c1;
  truck t1;
  v[2]=&t1;
  v[1]->size();
  v[2]->size();
}
```

```
car is small
truck is large
```



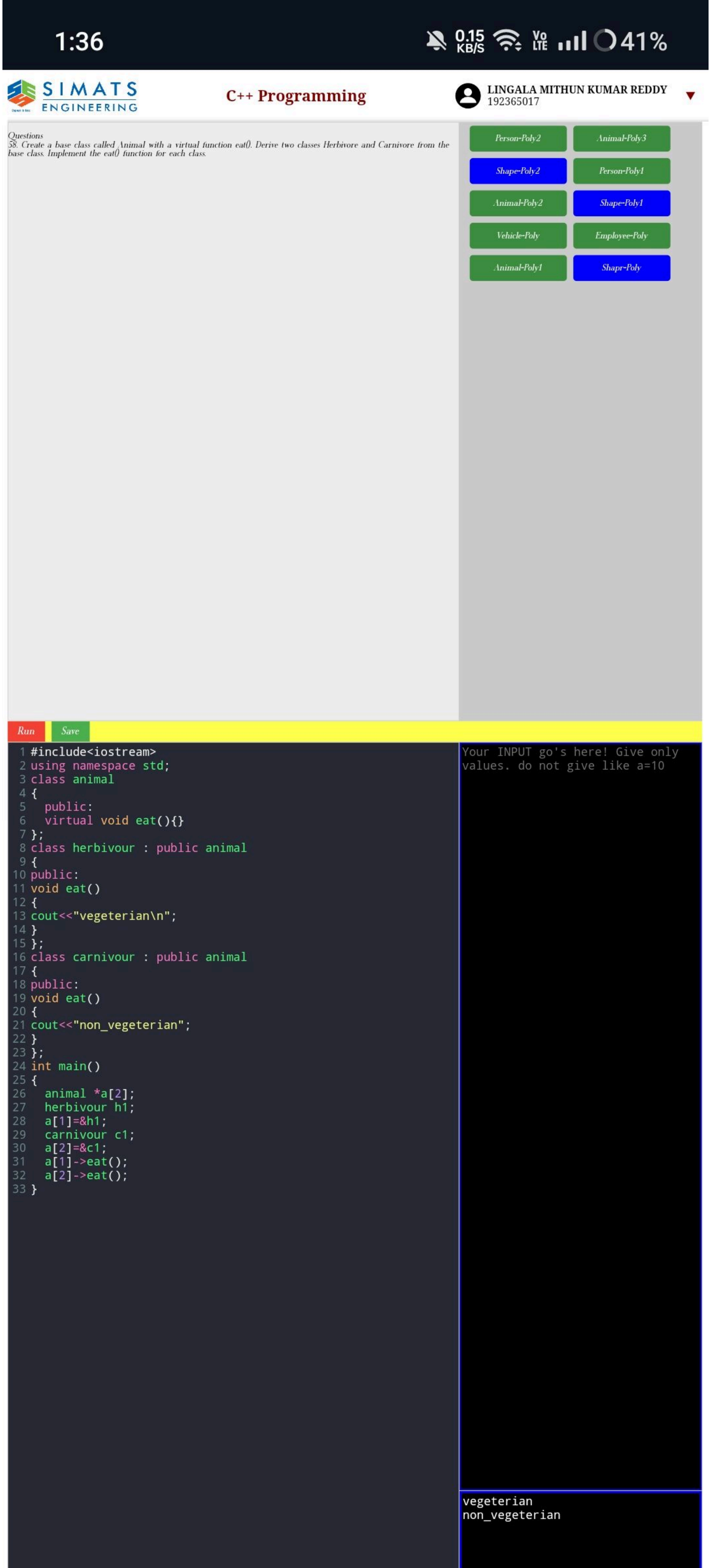
C++ Programming

Questions
55. Create a base class called Animal with a virtual function move(). Derive two classes Bird and Fish from the base class. Implement the move() function for each class.

```
#include<iostream>
using namespace std;
class animal
{
  public:
  virtual void work(){};
};
class bird : public animal
{
public:
void work()
{
cout<<"bird flys";
}
};
class fish : public animal
{
public:
void work()
{
cout<<"fish swims\n";
}
};
int main()
{
  animal *a[2];
  fish f1;
  a[1]=&f1;
  bird b1;
  a[2]=&b1;
  a[1]->work();
  a[2]->work();
}
```

Your INPUT go's here! Give only values. do not give like a=10

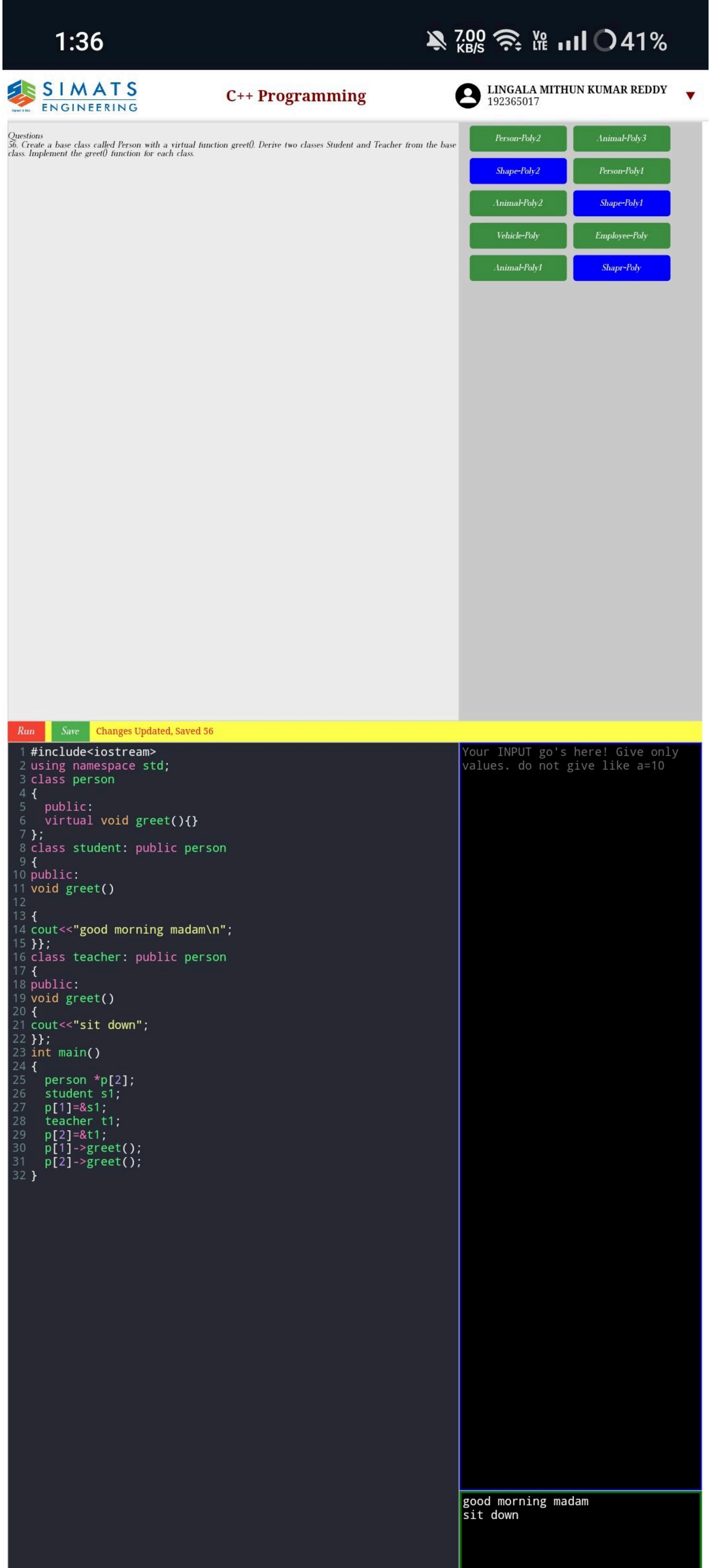
```
fish swims
bird flys
```



Questions
58. Create a base class called Animal with a virtual function eat(). Derive two classes Herbivore and Carnivore from the base class. Implement the eat() function for each class.

```cpp
#include<iostream>
using namespace std;
class animal
{
  public:
  virtual void eat(){}
};
class herbivour : public animal
{
public:
void eat()
{
cout<<"vegeterian\n";
}
};
class carnivour : public animal
{
public:
void eat()
{
cout<<"non_vegeterian";
}
};
int main()
{
  animal *a[2];
  herbivour h1;
  a[1]=&h1;
  carnivour c1;
  a[2]=&c1;
  a[1]->eat();
  a[2]->eat();
}
```

```
vegeterian
non_vegeterian
```

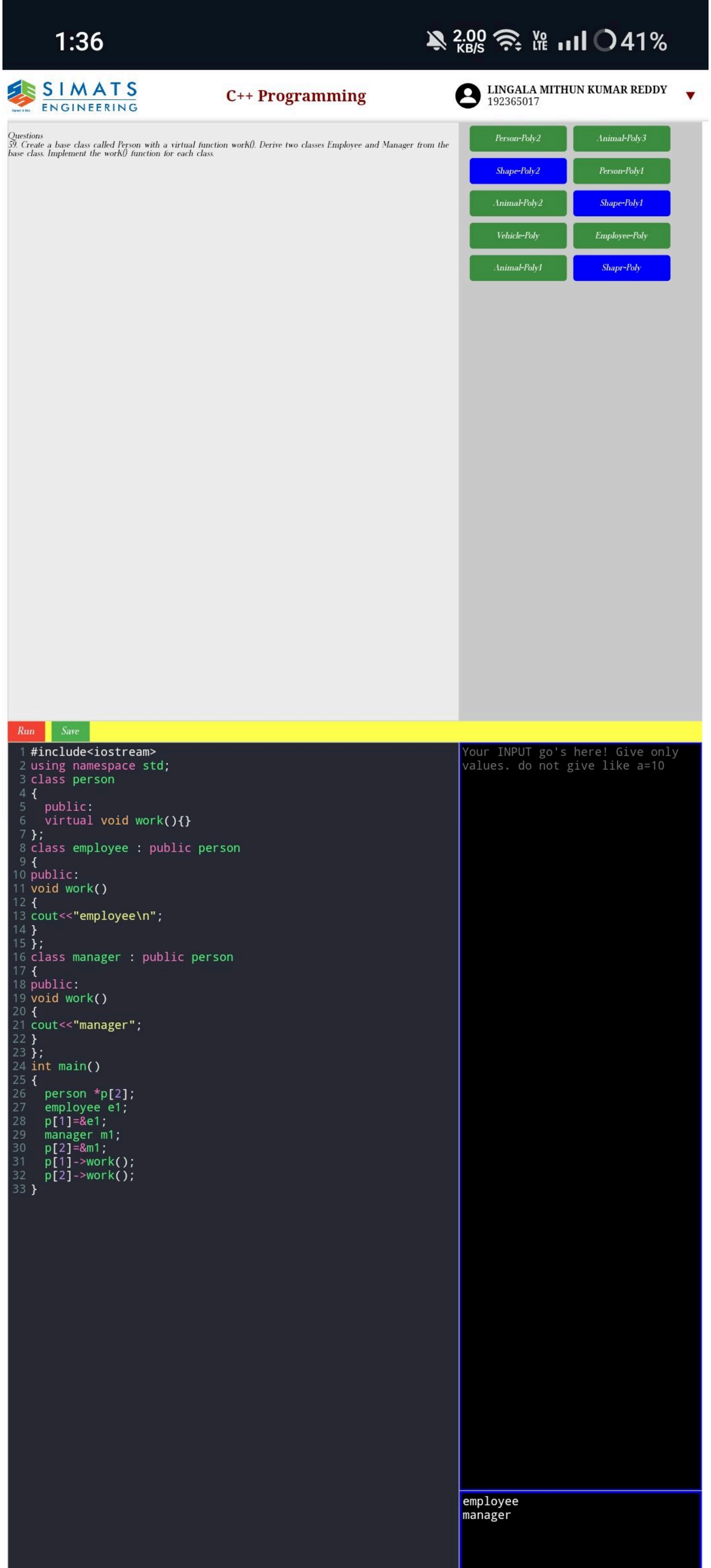


Questions
56. Create a base class called Person with a virtual function greet(). Derive two classes Student and Teacher from the base class. Implement the greet() function for each class.

```
#include<iostream>
using namespace std;
class person
{
  public:
  virtual void greet(){}
};
class student: public person
{
public:
void greet()

{
cout<<"good morning madam\n";
}};
class teacher: public person
{
public:
void greet()
{
cout<<"sit down";
}};
int main()
{
  person *p[2];
  student s1;
  p[1]=&s1;
  teacher t1;
  p[2]=&t1;
  p[1]->greet();
  p[2]->greet();
}
```

```
good morning madam
sit down
```



C++ Programming

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Questions
59. Create a base class called Person with a virtual function work(). Derive two classes Employee and Manager from the base class. Implement the work() function for each class.

```
#include<iostream>
using namespace std;
class person
{
  public:
  virtual void work(){}
};
class employee : public person
{
public:
void work()
{
cout<<"employee\n";
}
};
class manager : public person
{
public:
void work()
{
cout<<"manager";
}
};
int main()
{
  person *p[2];
  employee e1;
  p[1]=&e1;
  manager m1;
  p[2]=&m1;
  p[1]->work();
  p[2]->work();
}
```

Your INPUT go's here! Give only values. do not give like a=10

```
employee
manager
```