MARYGIRI COLLEGE OF ARTS AND SCIENCE

KOOTHATTUKULAM

(Affiliated to Mahatma Gandhi University)

DEPARTMAENT OF COMPUTER SCIENCE

Record of Practical Work in

WEB PROGRAMMING USING PHP

Name :	**Register Number :**
Course :	**Semester :**
Subject :	**Year :**

Professor In-charge **Head of the Department**

Submitted for the practical examination held on …….

Internal Examiner **External Examiner**

I. Basic Programs

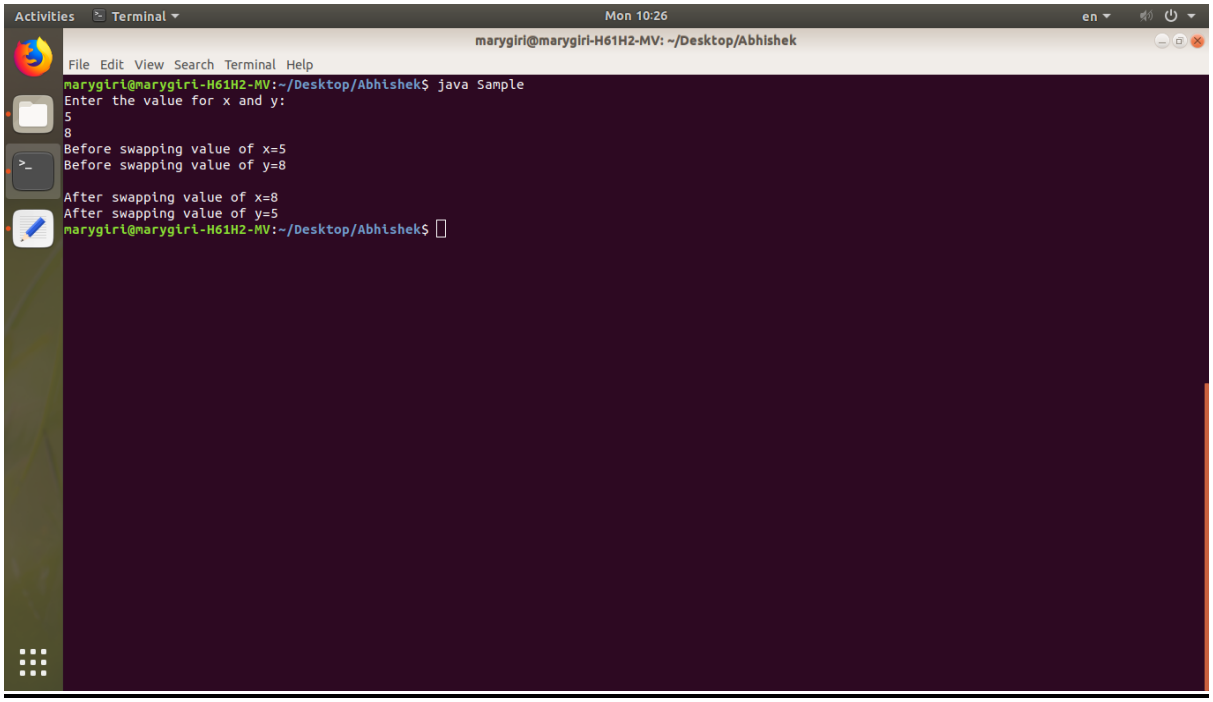
1.Swap two numbers.

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Swap
{
int x,y,temp;
public void read()
{
Scanner ob1=new Scanner(System.in);
System.out.println("Enter the value for x and y:");
x=ob1.nextInt();
y=ob1.nextInt();
System.out.println("Before swapping value of x="+x);
System.out.println("Before swapping value of y="+y);
System.out.println(" ");
}
public void find()
{
temp=x;
x=y;
y=temp;
System.out.println("After swapping value of x="+x);
System.out.println("After swapping value of y="+y);
```

```
}

}

public class Sample

{

public static void main(String args[])

{

Swap ob2=new Swap();

ob2.read();

ob2.find();

}
```

OUTPUT


Activities
Terminal
Mon 10:26
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample
Enter the value for x and y:
5
8
Before swapping value of x=5
Before swapping value of y=8
After swapping value of x=8
After swapping value of y=5
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

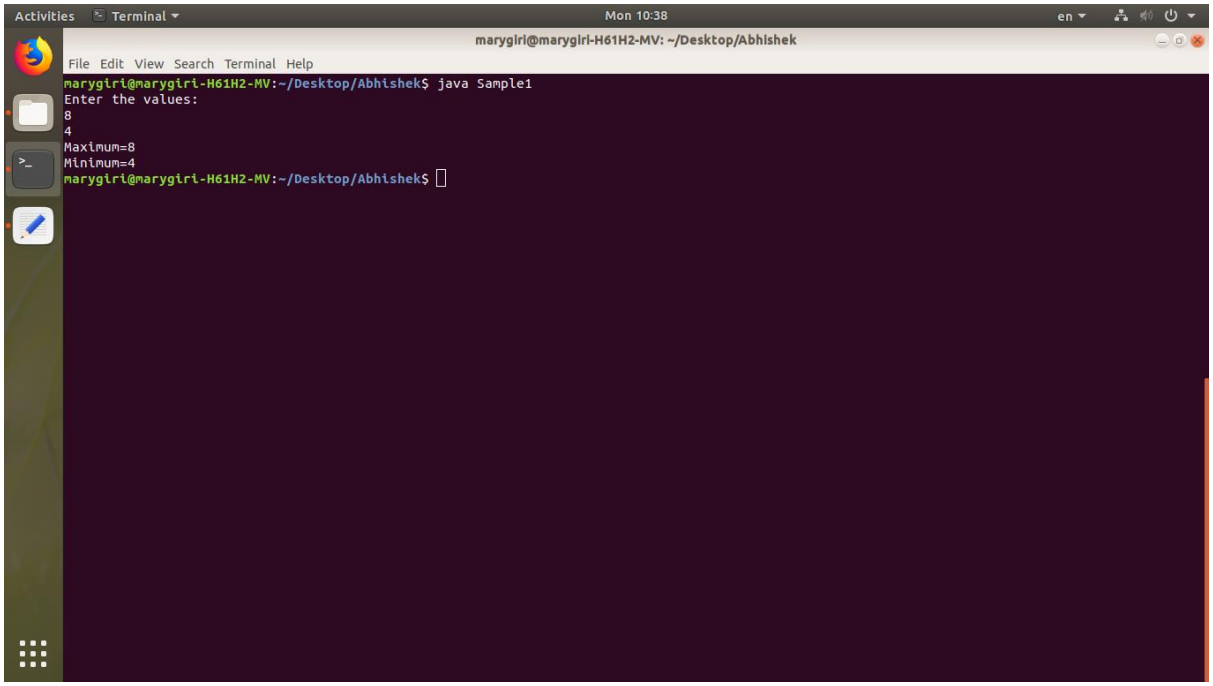
2. Find max and min number

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Maxmin
{
 int x,y;
 public void read()
{
 Scanner ob1=new Scanner(System.in);
 System.out.println("Enter the values:");
 x=ob1.nextInt();
 y=ob1.nextInt();
 }
public void find()
{
 if(x>y)
{
System.out.println("Maximum="+x);
System.out.println("Minimum="+y);
}
else
{
System.out.println("Maximum="+y);
```

```
System.out.println("Minimum="+x);
}
}
}
public class Sample1
{
public static void main(String args[])
{
Maxmin ob2=new Maxmin();
ob2.read();
ob2.find();
}
}
```

OUTPUT


Activities
Terminal
Mon 10:38
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample1
Enter the values:
8
4
Maximum=8
Minimum=4
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

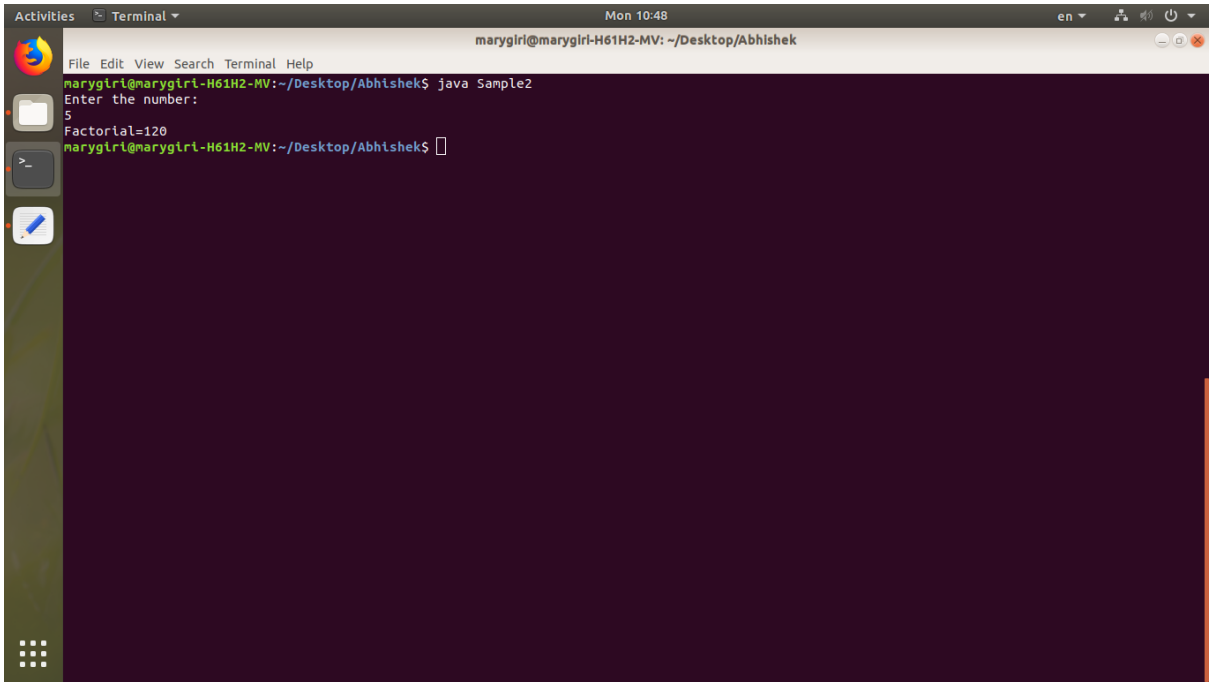
3. Find the factorial

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Factorial
{
int n,i,fact=1;
public void read()
{
Scanner ob1=new Scanner(System.in);
System.out.println("Enter the number:");
 n=ob1.nextInt();
}
public void find()
{
for(i=1;i<=n;i++)
{
 fact=fact*i;
}
System.out.println("Factorial="+fact);
}
}
public class Sample2
{
public static void main(String args[])
```

```
{
Factorial ob2=new Factorial();
ob2.read();
ob2.find();
}
}
```

OUTPUT


Activities
Terminal
Mon 10:48
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample2
Enter the number:
5
Factorial=120
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

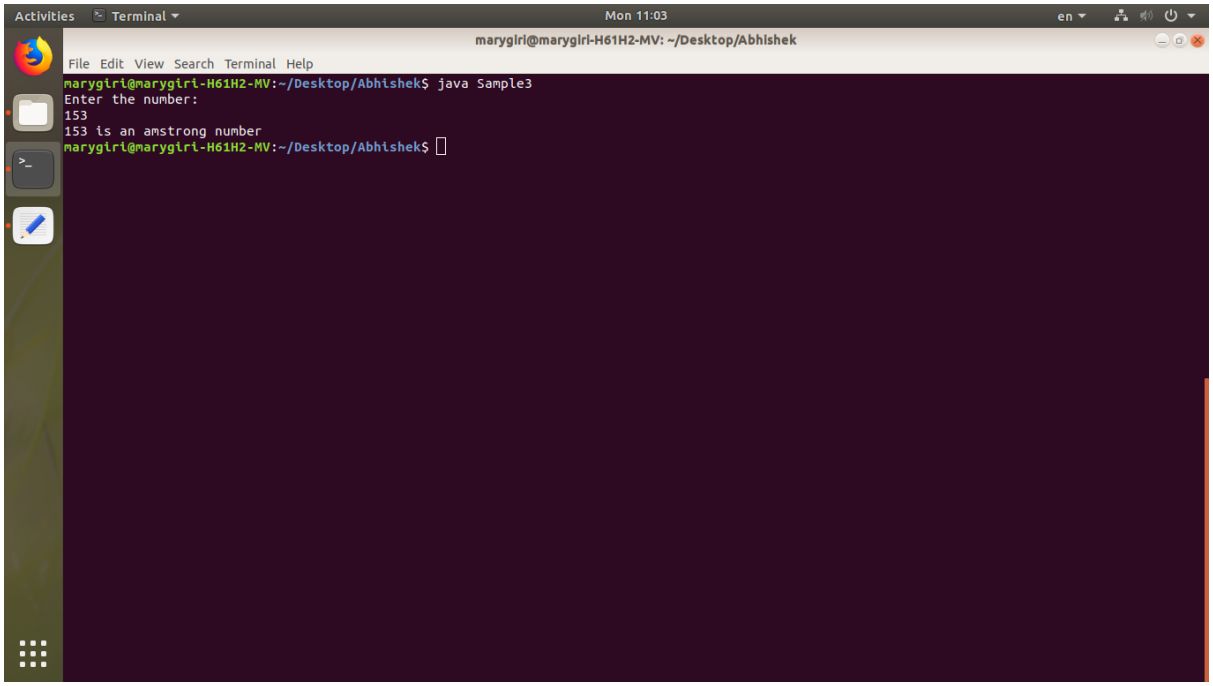
4. Check Armstrong number

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Amstrong
{
int n,num,r,sum=0;
 public void read()
{
Scanner ob1=new Scanner(System.in);
System.out.println("Enter the number:");
n=ob1.nextInt();
num=n;
}
public void find()
{
while(num>0)
{
r=num%10;
sum=sum+(r*r*r);
num=num/10;
}
if(n==sum)
{
```

```
System.out.println(n+" "+"is an amstrong number");
}
else
{
System.out.println(n+" "+"is not an amstrong number");
}
}
}
public class Sample3
{
public static void main(String args[])
{
Amstrong ob2=new Amstrong();
ob2.read();
ob2.find();
}
}
```

OUTPUT


Activities
Terminal
Mon 11:03
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample3
Enter the number:
153
153 is an amstrong number
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

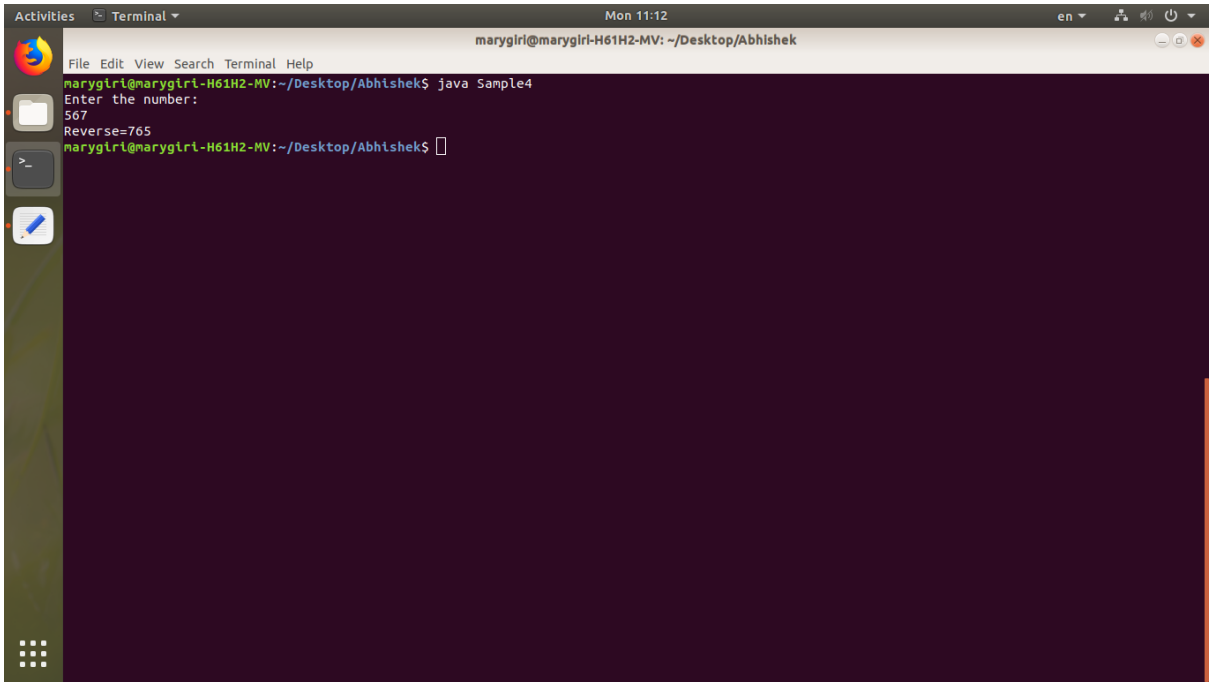
5. Reverse the number

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Reverse
{
int n,r=0,rem;
public void read()
{
Scanner ob1=new Scanner(System.in);
System.out.println("Enter the number:");
n=ob1.nextInt();
}
public void find()
{
while(n>0)
{
rem=n%10;
r=r*10+rem;
n=n/10;
}
System.out.println("Reverse="+r);
```

```
}
}
public class Sample4
{
 public static void main(String args[])
{
Reverse ob2=new Reverse();
ob2.read();
ob2.find();
}
}
```

OUTPUT


Activities
Terminal
Mon 11:12
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample4
Enter the number:
567
Reverse=765
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

6. Write a Java program to accept a number from user and count zero, odd and even digits of the entered number.

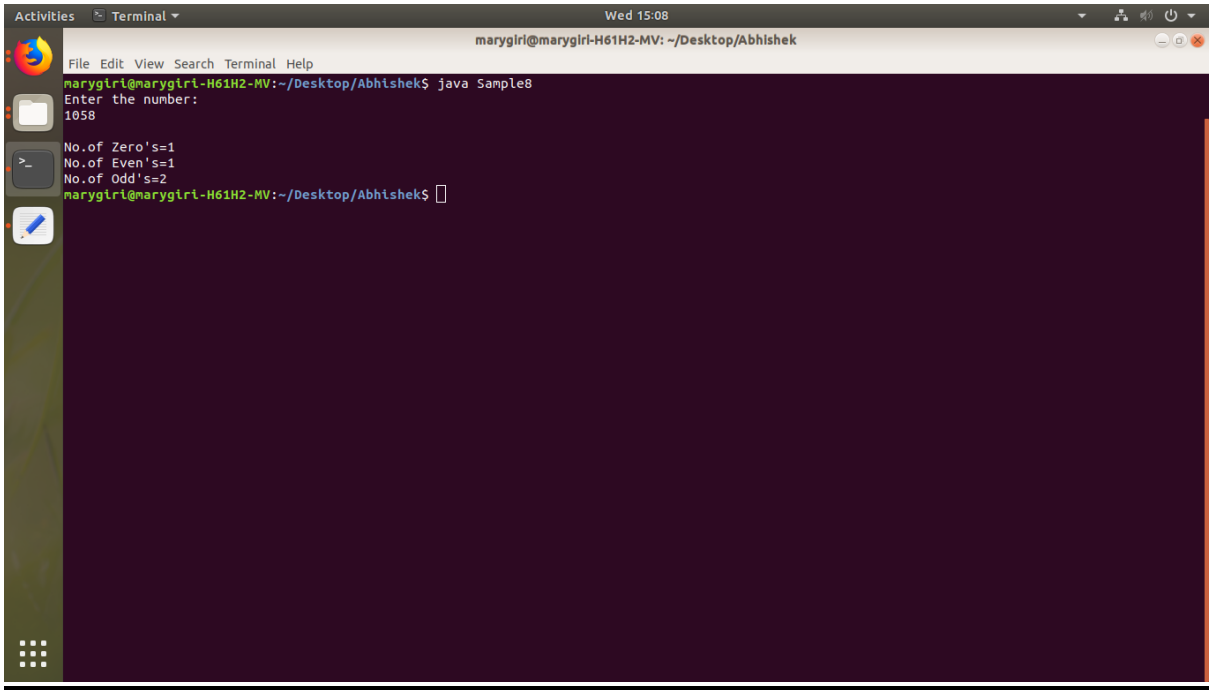
SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Count
{
 int n,zcount,ocount,ecount,r;
 public void read()
{
Scanner ob1=new Scanner(System.in);
System.out.println("Enter the number:");
n=ob1.nextInt();
}
public void find()
{
while(n>0)
{
r=n%10;
if(r==0)
{
zcount++;
}
else if(r%2==0 && r!=0)
```

```
{
ecount++;
}
else
{
ocount++;
}
n=n/10;
}
}
public void display()
{
System.out.println(" ");
System.out.println("No.of Zero's="+zcount);
System.out.println("No.of Even's="+ecount);
System.out.println("No.of Odd's="+ocount);
}
}

public class Sample8
{
public static void main(String args[])
{
 Count ob1=new Count();
```

```
ob1.read();
ob1.find();
ob1.display();
}
}
```

OUTPUT


Activities
Terminal
Wed 15:08
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample8
Enter the number:
1058
No.of Zero's=1
No.of Even's=1
No.of Odd's=2
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

II. Method Overloading

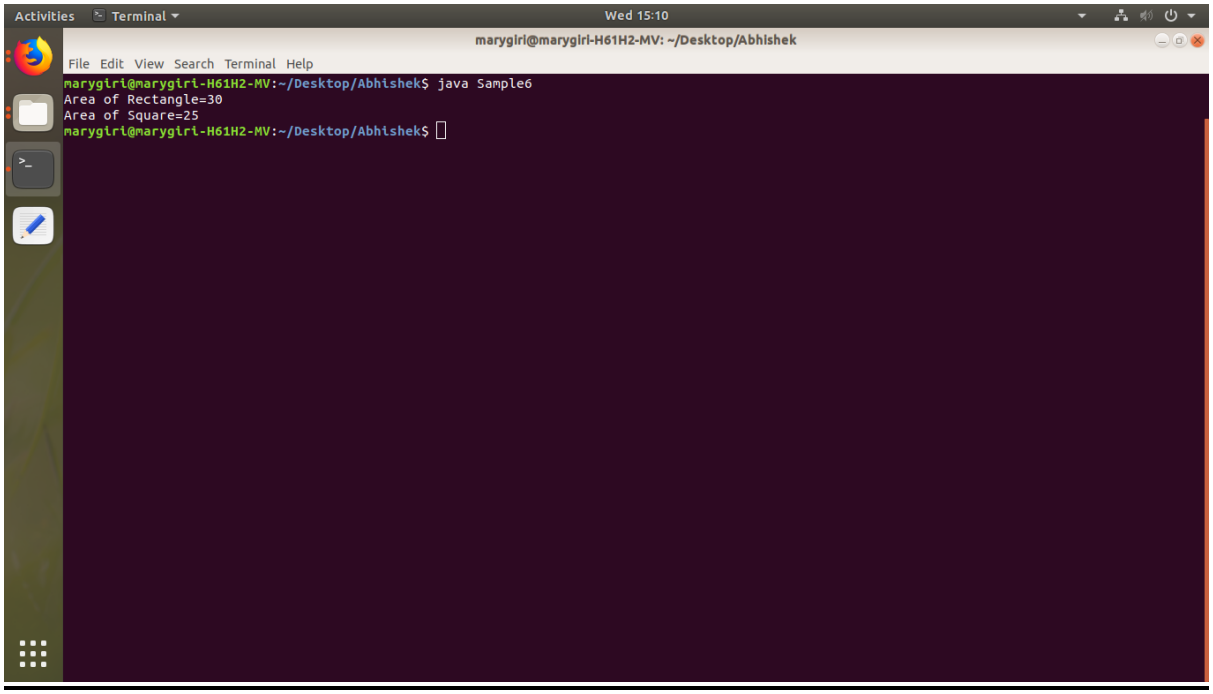
1.Program to find area of square and rectangle.

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Area
{
int l,b,area,s;
public void ar(int x,int y)
{
l=x;
b=y;
area=l*b;
System.out.println("Area of Rectangle="+area);
}
public void ar(int x)
{
s=x;
area=s*s;
System.out.println("Area of Square="+area);
}
}

public class Sample6
{
```

```
public static void main(String args[])
{
 Area ob2=new Area();
 ob2.ar(5,6);
 ob2.ar(5);
}
}
```

OUTPUT


Activities
Terminal
Wed 15:10
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample6
Area of Rectangle=30
Area of Square=25
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

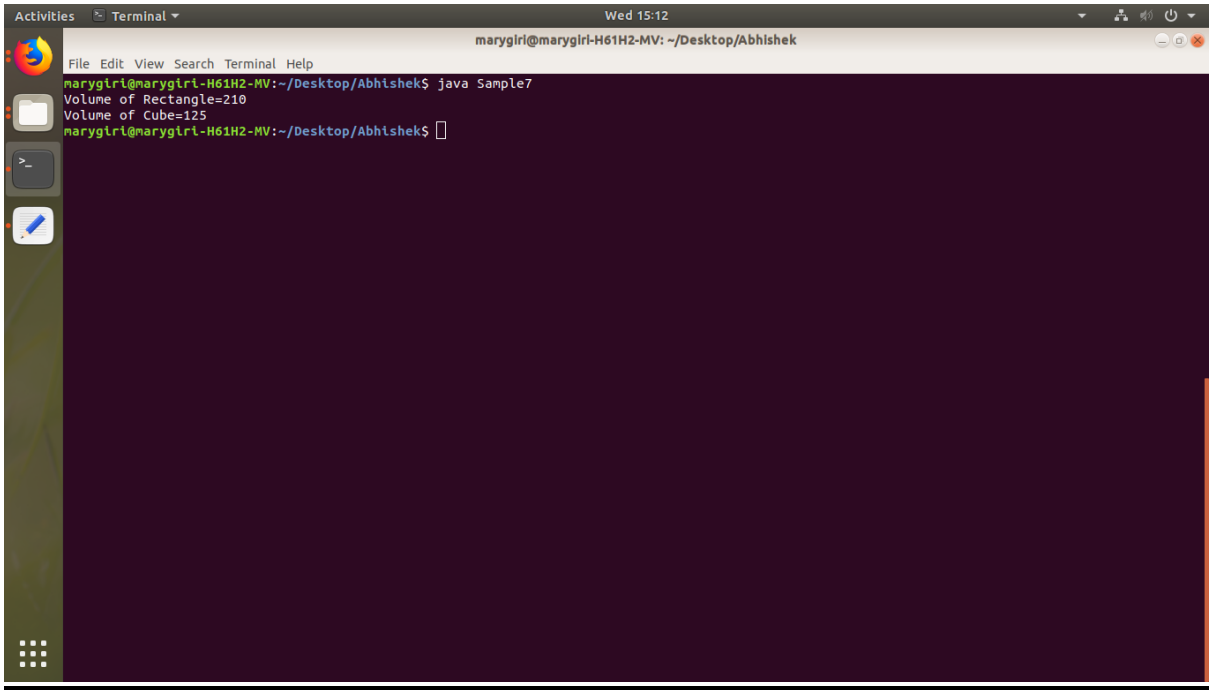
2. Program to find volume of cube and rectangular box.

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Volume
{
int l,b,h,v,a;
public void vol(int x,int y,int z)
{
l=x;
b=y;
h=z;
v=l*b*h;
System.out.println("Volume of Rectangle="+v);
}
public void vol(int x)
{
a=x;
v=a*a*a;
System.out.println("Volume of Cube="+v);
}
}

public class Sample7
```

```
{
public static void main(String args[])
{
Volume ob2=new Volume();
ob2.vol(5,6,7);
ob2.vol(5);
}
}
```

OUTPUT


Activities
Terminal
Wed 15:12
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample7
Volume of Rectangle=210
Volume of Cube=125
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

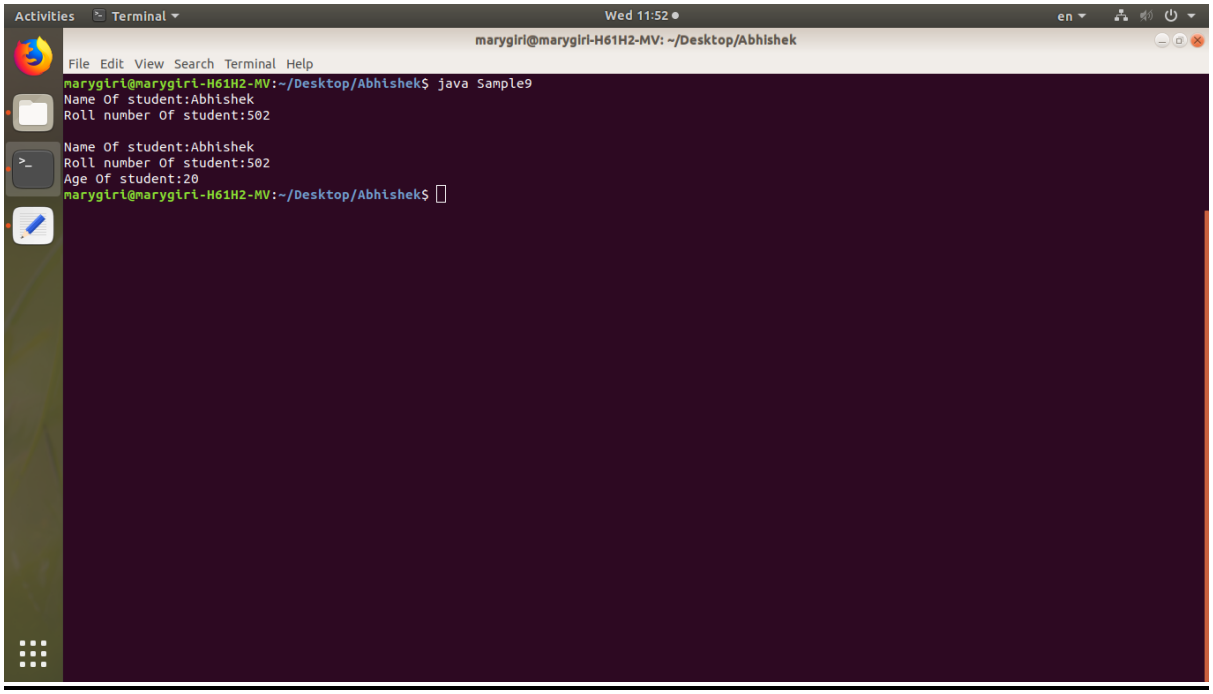
III. Constructor Overloading

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Student
{
int age,rollno;
String name;
Student(String x,int y)
{
name=x;
rollno=y;
}
Student(String x,int y,int a)
{
name=x;
rollno=y;
age=a;
}
public void display()
{
System.out.println("Name Of student:"+name);
System.out.println("Roll number Of student:"+rollno);
}
public void display1()
```

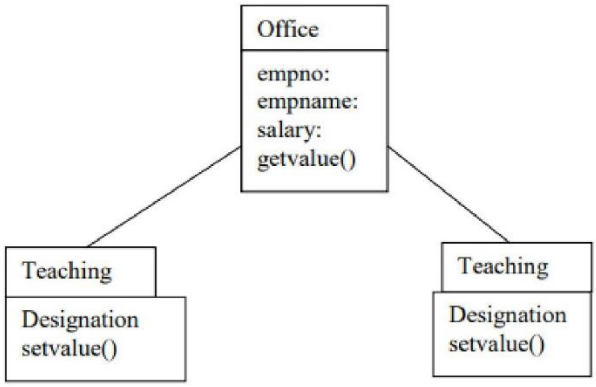
```
{
System.out.println(" ");
System.out.println("Name Of student:"+name);
System.out.println("Roll number Of student:"+rollno);
System.out.println("Age Of student:"+age);
}
}
public class Sample9
{
public static void main(String args[])
{
Student ob1=new Student("Abhishek",502);
Student ob2=new Student("Abhishek",502,20);
ob1.display();
ob2.display1();
}
}
```

OUTPUT


Activities
Terminal
Wed 11:52
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample9
Name Of student:Abhishek
Roll number Of student:502
Name Of student:Abhishek
Roll number Of student:502
Age Of student:20
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

IV. Inheritance

1.Write a java program that implements educational hierarchy using inheritance.



SOURCE CODE

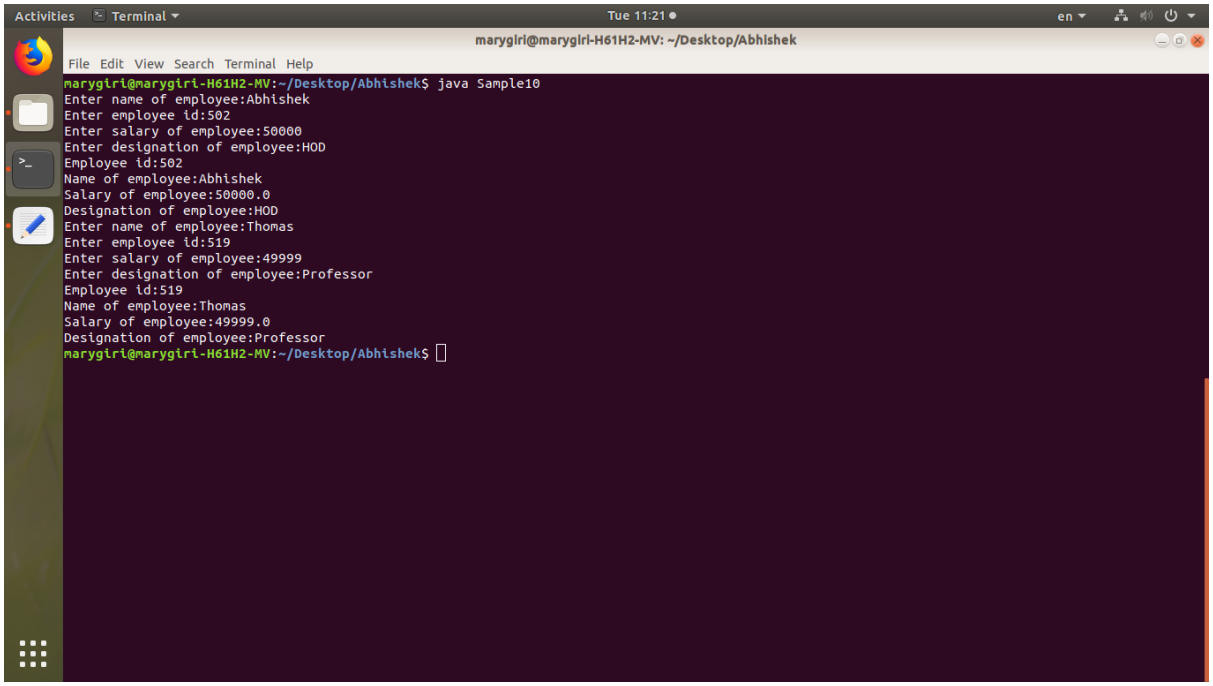
```
import java.lang.*;

import java.util.Scanner;

class Employee

{

int empno;

String name;

float salary;

public void read()

{

Scanner ob1=new Scanner(System.in);

System.out.print("Enter name of employee:");

name=ob1.nextLine();

System.out.print("Enter employee id:");

empno=ob1.nextInt();
```

```
System.out.print("Enter salary of employee:");
salary=ob1.nextFloat();
}
public void display()
{

System.out.println("Employee id:"+empno);
System.out.println("Name of employee:"+name);
System.out.println("Salary of employee:"+salary);
}
}
class Teaching1 extends Employee
{
 String des;
public void setValue()
{
Scanner ob4=new Scanner(System.in);
System.out.print("Enter designation of employee:");
des=ob4.nextLine();
}
public void display1()
{
System.out.println("Designation of employee:"+des);
}
```

```
}
class Teaching2 extends Employee
{
String des1;
public void setValue1()
{
Scanner ob5=new Scanner(System.in);
System.out.print("Enter designation of employee:");
des1=ob5.nextLine();
}
public void display2()
{
System.out.println("Designation of employee:"+des1);
}
}
public class Sample10
{
public static void main(String args[])
{
Teaching1 ob2=new Teaching1();
Teaching2 ob3=new Teaching2();
ob2.read();
ob2.setValue();
ob2.display();
```

```
ob2.display1();

ob3.read();

ob3.setValue1();

ob3.display();

ob3.display2();

}

}
```

OUTPUT


Activities
Terminal
Tue 11:21
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample10
Enter name of employee:Abhishek
Enter employee id:502
Enter salary of employee:50000
Enter designation of employee:HOD
Employee id:502
Name of employee:Abhishek
Salary of employee:50000.0
Designation of employee:HOD
Enter name of employee:Thomas
Enter employee id:519
Enter salary of employee:49999
Enter designation of employee:Professor
Employee id:519
Name of employee:Thomas
Salary of employee:49999.0
Designation of employee:Professor
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

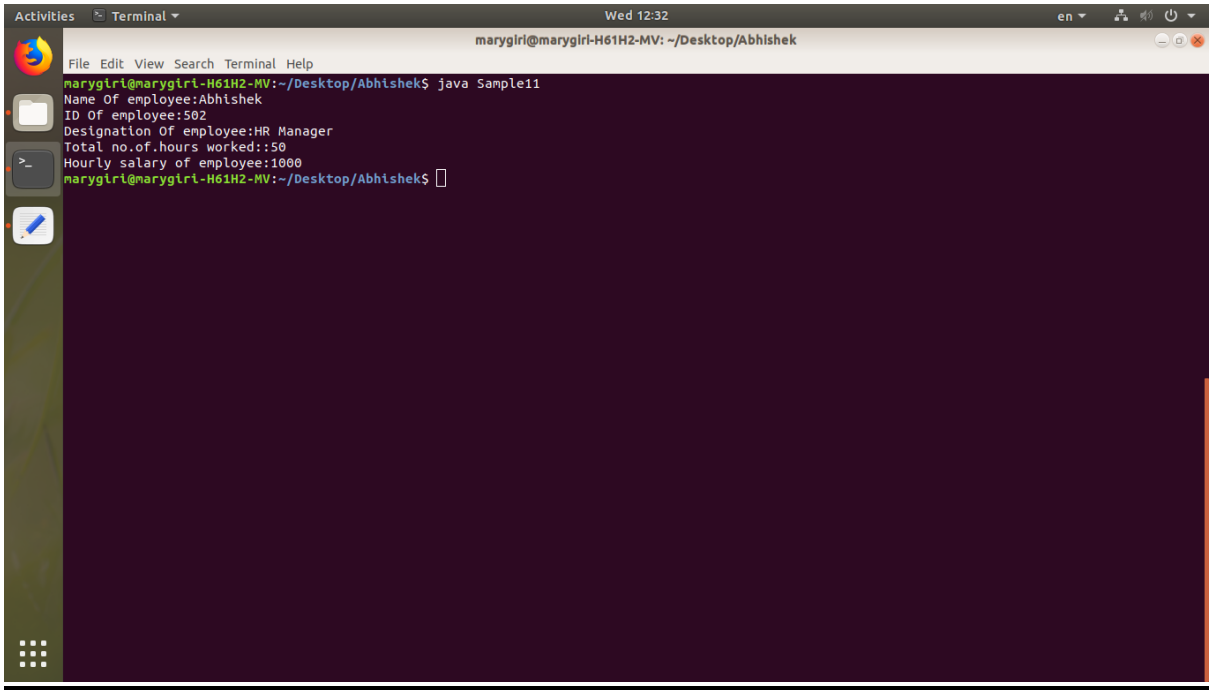
2. Define a class Employee with empno, name, designation. Define a class partEmp which is the subclass Of Employee has its data member as noofhrsworked and hourlySal, Write a complete program to implement it(use consturctors to initialize the values.)

SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
class Employee
{
int empno;
String name,des;
Employee(String b,String c,int a)
{
name=b;
des=c;
empno=a;
}
public void display()
{
System.out.println("Name Of employee:"+name);
System.out.println("ID Of employee:"+empno);
System.out.println("Designation Of employee:"+des);
}
}
class partEmp extends Employee
{
int hrswork;
int hsal;
partEmp(int x,int y,String b,String c,int a)
{
super(b,c,a);
hrswork=x;
hsal=y;
}
```

```
public void show()
{
System.out.println("Total no.of.hours worked::"+hrswork);
System.out.println("Hourly salary of employee:"+hsal);
}
}
public class Sample11
{
public static void main(String args[])
{
partEmp ob1=new partEmp(50,1000,"Abhishek","HR Manager",502);
ob1.display();
ob1.show();
}
}
```

OUTPUT

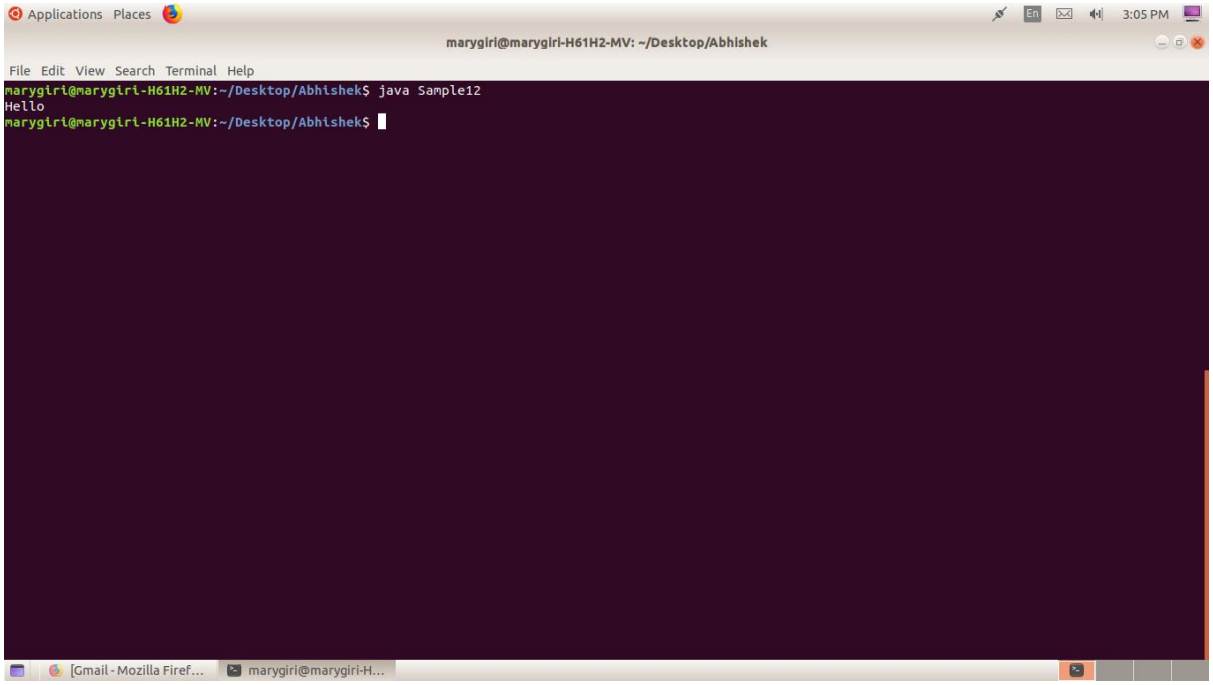

Activities
Terminal
Wed 12:32
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample11
Name Of employee:Abhishek
ID Of employee:502
Designation Of employee:HR Manager
Total no.of.hours worked::50
Hourly salary of employee:1000
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

3. Program to show Dynamic method dispatch

SOURCE CODE

```
import java.lang.*;
class A
{
public void display()
{
System.out.println("Hai");
}
}
class B extends A
{
public void display()
{
System.out.println("Hello");
}
}
public class Sample12
{
public static void main(String args[])
{
A ob1=new B();
ob1.display();
}
}
```

OUTPUT


Applications Places
3:05 PM
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample12
Hello
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$
[Gmail - Mozilla Firef...
marygiri@marygiri-H...

4. Create an abstract class called Figure which contains three data members (length, breadth and height). Include an abstract method to find the area. Figure class also contains concrete methods to read the data members and to display them. Derive two classes Rectangle and Triangle from Figure and override area () to find the area of a rectangle and triangle.

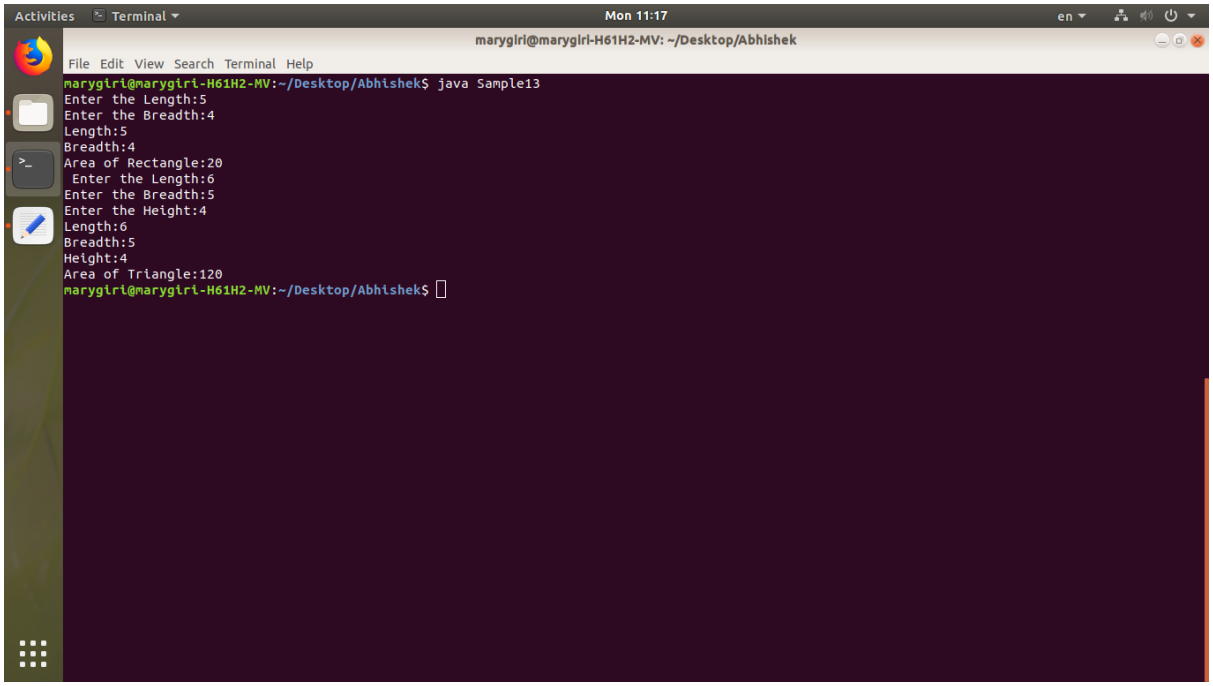
SOURCE CODE

```
import java.lang.*;
import java.util.Scanner;
abstract class Figure
{
 int l,b,h,ar;
abstract public void area();
public void read()
{
Scanner ob1=new Scanner(System.in);
System.out.print("Enter the Length:");
l=ob1.nextInt();
System.out.print("Enter the Breadth:");
b=ob1.nextInt();
}
public void read1()
{
Scanner ob4=new Scanner(System.in);
System.out.print(" ");
System.out.print("Enter the Length:");
l=ob4.nextInt();
System.out.print("Enter the Breadth:");
b=ob4.nextInt();
System.out.print("Enter the Height:");
h=ob4.nextInt();
}
public void display()
{
```

```
System.out.println("Length:"+l);
System.out.println("Breadth:"+b);
}
public void display1()
{
System.out.println("Length:"+l);
System.out.println("Breadth:"+b);
System.out.println("Height:"+h);
}
}
class Rectangle extends Figure
{
public void area()
{
 ar=l*b;
System.out.println("Area of Rectangle:"+ar);
}
}
class Triangle extends Figure
{
public void area()
{
 ar=l*b*h;
System.out.println("Area of Triangle:"+ar);
}
}
public class Sample13
{
public static void main(String args[])
{
Rectangle ob2=new Rectangle();
Triangle ob3=new Triangle();
ob2.read();
ob2.display();
```

```
ob2.area();
ob3.read1();
ob3.display1();
ob3.area();
}
}
```

OUTPUT


Activities
Terminal
Mon 11:17
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample13
Enter the Length:5
Enter the Breadth:4
Length:5
Breadth:4
Area of Rectangle:20
Enter the Length:6
Enter the Breadth:5
Enter the Height:4
Length:6
Breadth:5
Height:4
Area of Triangle:120
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$

V Interface, Arrays

1. Create an interface Department containing attributes deptName and deptHead.it as an abstract method showData() for printing the attribute. Create a class Hostel containing hostelname, hostellocation and noofrooms and also have methods readData() and printData() for reading and printing the details. Then write another class named Student extending the Hostel class and implementing the Department interface. This class contains which contains the attributes studname, regno, electivesub and avgmark and use readData() and showData() for reading and printing the details.

SOURCE CODE

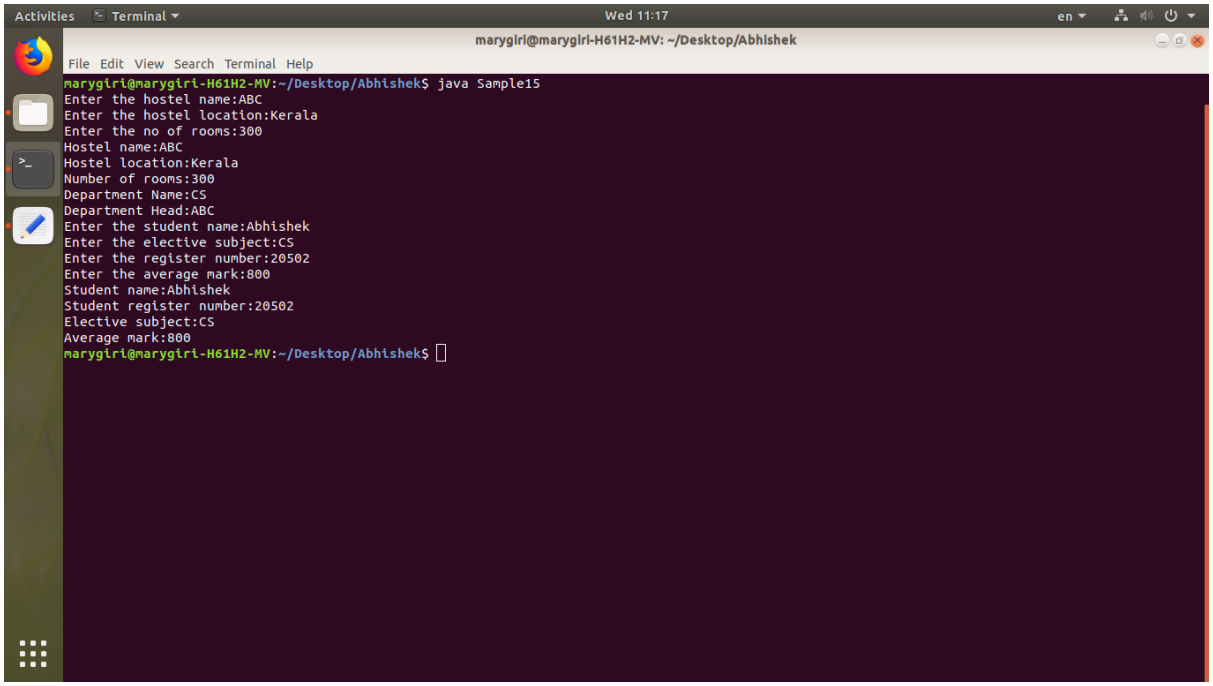
```
import java.lang.*;
import java.util.Scanner;
interface Department
{
String deptName="CS";
String deptHead="ABC";
abstract void showData();
}
class Hostel
{
String hostelname,hostellocation;
int noofrooms;
public void readData()
{
Scanner ob1=new Scanner(System.in);
```

```
System.out.print("Enter the hostel name:");
hostelname=ob1.nextLine();
System.out.print("Enter the hostel location:");
hostellocation=ob1.nextLine();
System.out.print("Enter the no of rooms:");
noofrooms=ob1.nextInt();
}
public void printData()
{
System.out.println("Hostel name:"+hostelname);
System.out.println("Hostel location:"+hostellocation);
System.out.println("Number of rooms:"+noofrooms);
}
}
class Student extends Hostel implements Department
{
public void show()
{
System.out.println("Department Name:"+deptName);
System.out.println("Department Head:"+deptHead);
}
String studname,electivesub;
int regno,avgmark;
public void readData1()
```

```
{
Scanner ob2=new Scanner(System.in);
System.out.print("Enter the student name:");
studname=ob2.nextLine();
System.out.print("Enter the elective subject:");
electivesub=ob2.nextLine();
System.out.print("Enter the register number:");
regno=ob2.nextInt();
System.out.print("Enter the average mark:");
avgmark=ob2.nextInt();
}
public void showData()
{
System.out.println("Student name:"+studname);
System.out.println("Student register number:"+regno);
System.out.println("Elective subject:"+electivesub);
System.out.println("Average mark:"+avgmark);
}
}
public class Sample15
{
public static void main(String args[])
{
Student ob3=new Student();
```

```
ob3.readData();

ob3.printData();

ob3.show();

ob3.readData1();

ob3.showData();

}

}
```

OUTPUT


Activities
Terminal
Wed 11:17
en
marygiri@marygiri-H61H2-MV: ~/Desktop/Abhishek
File Edit View Search Terminal Help
marygiri@marygiri-H61H2-MV:~/Desktop/Abhishek$ java Sample15
Enter the hostel name:ABC
Enter the hostel location:Kerala
Enter the no of rooms:300
Hostel name:ABC
Hostel location:Kerala
Number of rooms:300
Department Name:CS
Department Head:ABC
Enter the student name:Abhishek
Enter the elective subject:CS
Enter the register number:20502
Enter the average mark:800
Student name:Abhishek
Student register number:20502
Elective subject:CS
Average mark:800
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