

```
1)
public class overloadingfunc
static int add(int x,int y)
return x+y;
static double add(double x, double y)
return x+y;
public static void main(String[] agr)
int a=add(12,5);
double b=add(2.5,8.2);
System.out.println("Integer function is :"+a);
System.out.println("Double function is :"+b);
Output
```

```
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D:\Java>javac overloadingfunc.java

D:\Java>java overloadingfunc.java

Integer function is :17

Double function is :10.7

D:\Java>_
```

```
class shape
{
public void display()
{
System.out.println("this is inside display");
}
class circle extends shape{
public void show()
{
```

```
System.out.println("this is inside show");
class rectangle extends circle{
public void show2()
System.out.println("this is inside show2");
}
class multilevel
public static void main(String[] agr)
rectangle o=new rectangle();
o.display();
o.show();
o.show2();
Output
```

```
D:\Java>java multilevel
this is inside display
this is inside show
this is inside show2
D:\Java>_
```

```
3)
class shape
{
      public void display()
      {
             System.out.println("This is inside display");
       }
}
class circle extends shape {
      public void show()
      {
             System.out.println("This is inside show");
      }
}
class inheritance
```

```
{
      public static void main (String[] agr)
             circle o=new circle();
             o.display();
             o.show();
       }
}
Output
D:\Java>javac inheritance.java
D:∖Java>java inheritance
This is inside display
This is inside show
D:\Java>_
4)
public class Arrayobj{
public static void main(String[] args)
product[] o=new product[5];
o[0]=new product(12,"Soap");
o[1]=new product(14,"Gel");
o[2]=new product(17,"Handwash");
```

```
o[3]=new product(21,"Santizier");
o[4]=new product(23,"Mask");
System.out.println("The product details are : ");
int n=5;
for(int i=0;i<n;i++)
o[i].display();
class product
int pro_price;
String pro_name;
product(int pr,String name)
{
pro_price=pr;
pro_name=name;
}
public void display(){
System.out.println(" Product price is : "+ pro_price+" Product name : "+
pro_name);
```

```
}
Output
```

```
C:\Windows\System32\cmd.exe

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D:\Java>javac Arrayobj.java

D:\Java>java Arrayobj.java

The product details are :
Product price is : 12 Product name : Soap
Product price is : 14 Product name : Gel
Product price is : 17 Product name : Handwash
Product price is : 21 Product name : Santizier
Product price is : 23 Product name : Mask

D:\Java>
```

```
public class Sample_String1
{
    public static void main(String[] args)
    {
        String str_Sample = "RockStar";
        System.out.println("Length of String: " + str_Sample.length());
        System.out.println("Character at position 5: " + str_Sample.charAt(5));
        System.out.println("EndsWith character 'r': " + str_Sample.endsWith("r"));
    }
}
```

```
System.out.println("Replace 'Rock' with 'Duke': " + str_Sample.replace("Rock", "Duke"));
}
```

## Output

```
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D:\Java>javac Sample_String1.java

D:\Java>java Sample_String1.java

Length of String: 8
Character at position 5: t
EndsWith character 'r': true
Replace 'Rock' with 'Duke': DukeStar

D:\Java>
```