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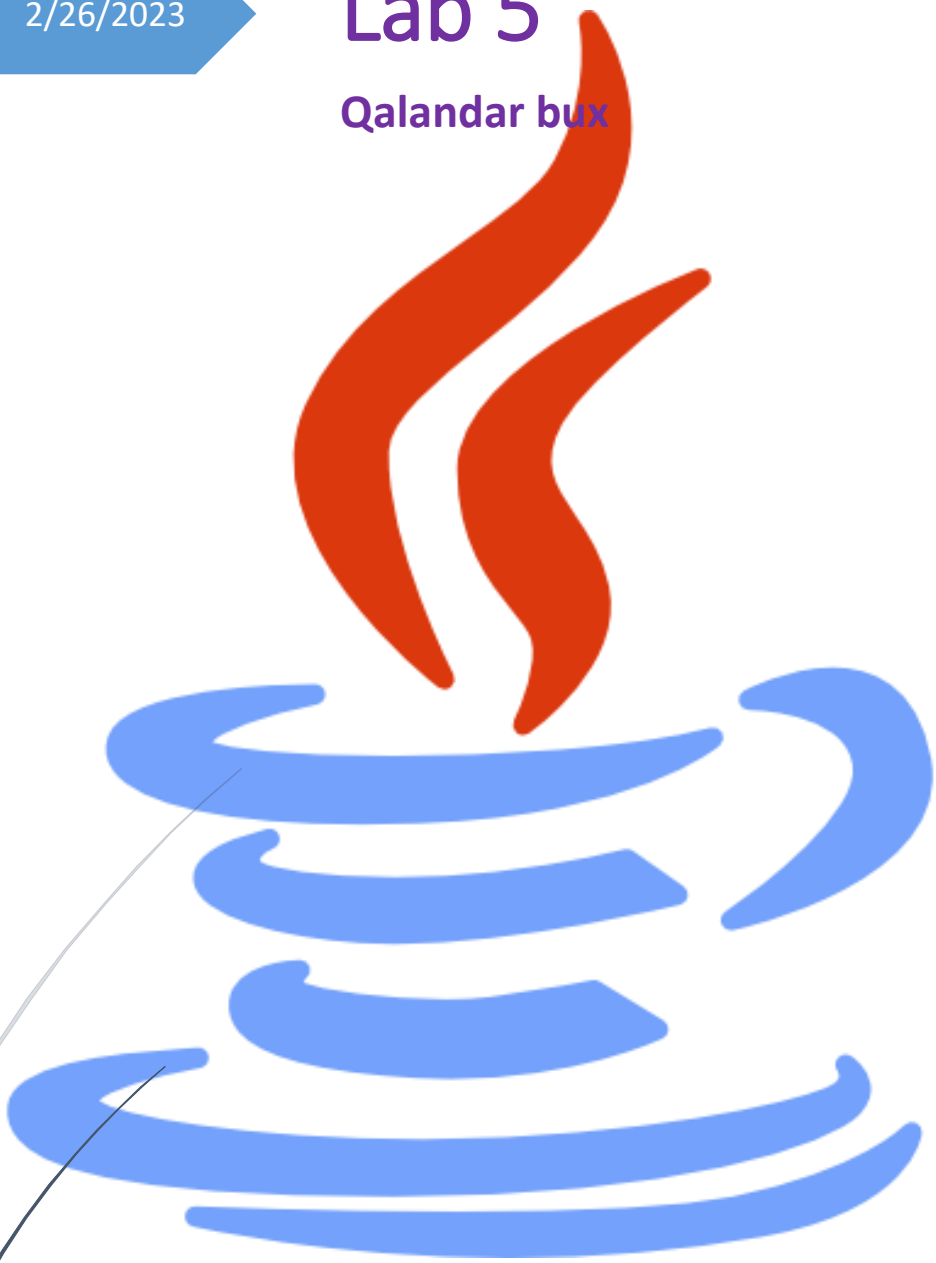
Lab 5

Qalandar bux



Oop(java)

023-22-0273

Task 1

```
package lab5;
import java.util.Scanner;
class BMI1{
static double BMI;
public static double calcluateBMI(double weight, double height) {
BMI=(weight/(height*height))*730;
return BMI;
}
public static String findStatus(double bmi) {
if(bmi<18.5) {
return "("+"Underweight "+" "+bmi+")";
}
else if(bmi>18.5 && bmi<24.9) {
return "("+"normal"+" "+bmi+")";
}
else if(bmi>25.0 && bmi<29.9) {
return "("+"overweight"+" "+bmi+")";
}
else {
return "("+"obsese"+" "+bmi+")";
}
}
}
public class BMI {
public static void main(String []args) {
BMI1 obj=new BMI1();
double weight,height;
Scanner input =new Scanner(System.in);
System.out.print("Eneter the weight in pounds ");
weight =input.nextDouble ();
System.out.print("Enetr thre height int inches");
height=input.nextDouble();
double BMI=BMI1.calcluateBMI(weight ,height);
System.out.print(BMI1.findStatus(BMI));
}
}
```

output

```
Eneter the weight in pounds
20
Enetr thre height int inches
36
(Underweight  11.265432098765432)
```

Task 2

```
package lab5;
import java.util.Scanner;
class Sum1{
public static int computeOdd(int input) {
int sum=0 ;
for(int i=0;i<input ;i++) {
if(i%2==1) {
sum+=i;
}
}
return sum;
}
public static int computeEven(int input) {
int sum=0;
for(int i=0;i<input;i++) {
if(i%2==0) {
sum+=i;
}
}
return sum;
}
}
public class Sum {
public static void main(String []args) {
Sum1 obj=new Sum1();
Scanner input=new Scanner(System.in);
int number;
do {
System.out.print("Enter the number for sum");
number=input.nextInt();
System.out.println("Sum of odd number are: "+Sum1.computeOdd(number));
System.out.println("Sum of Even number are: "+Sum1.computeEven(number));
}while(number!=-1);
}
}
```

output

```
Enter the number for sum
8
Sum of odd  number are: 16
Sum of Even number are: 12
Enter the number for sum
5
Sum of odd  number are: 4
Sum of Even number are: 6
Enter the number for sum
-1
```

Task 3

```
package lab5;
class Book{
String bookCategary,Author , Title,Publisher;
int sellingprice;
static int Quantity;
static int sold;
Book(String bookCategary,String Author , String Title,String Publisher,int
sellingprice,int Quantity){
this.bookCategary=bookCategary;
this.Author=Author;
this.Title=Title;
this.Publisher=Publisher;
this.sellingprice=sellingprice;
this.Quantity=Quantity;
}
public void DisplayQuantity() {
System.out.println("Total quantity is : "+Quantity);
}
void trackSalesStatus(int number) {
sold=sold+number;
}
public String Display() {
return "BOOKSOLD :"+sold+"\nQuantity Available : "+(Quantity-
sold)+"\nbookCategary:"+bookCategary+
"\nTitle :"+Title+"\nPublisher :"+Publisher+
"\nSellingprice :"+sellingprice;
}
}
public class BookStrore {
public static void main(String[]args) {
System.out.println("Categary 1 Kids");
Book obj1=new Book("Kids","grammer","Machvial","Wren",1000,56);
obj1.DisplayQuantity();
obj1.trackSalesStatus(6);
obj1.trackSalesStatus(6);
System.out.println(obj1.Display());
System.out.println("Categary 2 engineering ");
Book obj2=new Book("Engineering","Electric ","Einstien","Aristote",999,70);
obj2.DisplayQuantity();
obj2.trackSalesStatus(5);
obj2.trackSalesStatus(9);
System.out.println( obj2.Display());
System.out.println("Categary 3 Storry");
Book obj21=new Book("Story","twobrothers","Shakespare","Monto",899,90);
```

```
obj21.DisplayQuantity();
obj21.trackSalesStatus(7);
obj21.trackSalesStatus(3);
System.out.println(obj21.Display());
}
}
```

output

```
Categary 1 Kids
Total  quantity is : 56
BOOKSOLD   :12
Quantity Available : 44
bookCategary:Kids
Title   :Machvial
Publisher :Wren
Sellingprice :1000
Categary 2 engineering
Total  quantity is : 70
BOOKSOLD   :26
Quantity Available : 44
bookCategary:Engineering
Title   :Einstien
Publisher :Aristote
Sellingprice :999
Categary 3 Storry
Total  quantity is : 90
BOOKSOLD   :36
Quantity Available : 54
bookCategary:Story
Title   :Shakespare
Publisher :Monto
Sellingprice :899
```