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ASSIGNMENT.NO.9

TITLE **:** Identification and Implementation of GOF pattern

Apply any two GOF pattern to refine Design Model for a given problem description Using effective UML 2 diagrams and implement them with a suitable object oriented language

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package whatsapp;

import java.util.Scanner;

public class whatsapp {

public static void main(String []args)

{

int ch,ch1;

Scanner s=new Scanner(System.in);

do

{

System.out.println("1)ON\n2)OFF\n3)EXIT\nDo you want ON/OFF whats app:");

ch=s.nextInt();

switch(ch)

{

case 1:

do

{

System.out.println("Enter state:\n1)send\n2)Receive\n3)voice call\n4)video call");

ch1=s.nextInt();

switch(ch1)

{

case 1:

send s1=new send();

s1.action();

break;

case 2:

receive r=new receive();

r.action();

break;

case 3:

voicecall v=new voicecall();

v.action();

break;

case 4:

videocall v1=new videocall();

v1.action();

break;

}

}while(ch1<5);

break;

case 2:

System.out.println("whats app in OFF state");

break;

}

}while(ch<3);

}

}

---------------------------------------------------------------------------------------------------

package whatsapp;

public interface state {

public void action();

}

---------------------------------------------------------------------------------------------------

package whatsapp;

public class send implements state {

public void action()

{

System.out.println("what's app in sending state");

}

}

----------------------------------------------------------------------------------------------------

package whatsapp;

public class receive implements state {

public void action()

{

System.out.println("what's app in receiving state");

}

}

----------------------------------------------------------------------------------------------------

package whatsapp;

public class voicecall implements state {

public void action()

{

System.out.println("what's app in voice call state");

}

}

---------------------------------------------------------------------------------------------------

package whatsapp;

public class videocall implements state {

public void action()

{

System.out.println("what's app in video call state");

}

}

----------------------------------------------------------------------------------------------------

OUTPUT

1)ON

2)OFF

3)EXIT

Do you want ON/OFF whats app:

1

Enter state:

1)send

2)Receive

3)voice call

4)video call

1

what's app in sending state

Enter state:

1)send

2)Receive

3)voice call

4)video call

2

what's app in receiving state

Enter state:

1)send

2)Receive

3)voice call

4)video call

3

what's app in voice call state

Enter state:

1)send

2)Receive

3)voice call

4)video call

4

what's app in video call state

Enter state:

1)send

2)Receive

3)voice call

4)video call

5

1)ON

2)OFF

3)EXIT

Do you want ON/OFF whats app:

2

whats app in OFF state

1)ON

2)OFF

3)EXIT

Do you want ON/OFF whats app:

3

package oss;

import java.util.Scanner;

public class main {

public static void main(String[] args)

{

Scanner sx = new Scanner(System.in);

int ch=0;

char ans='\0';

char ans1='\0';

double cost=0.0;

do

{

System.out.println("1.cloths\n2.watches \n3.shoes\n4.mobiles");

System.out.println("\nEnter your choice :");

ch=sx.nextInt();

System.out.println("\nEnter the cost :");

cost=sx.nextDouble();

switch(ch)

{

case 1:

System.out.println("cloths");

cloths c=new cloths();

c.cost(cost);

break;

case 2:

System.out.println("watches");

watches w =new watches();

w.cost(cost);

break;

case 3:

System.out.println("shoes");

shoes s =new shoes();

s.cost(cost);

break;

case 4:

System.out.println("mobiles");

mobiles m=new mobiles();

m.cost(cost);

break;

default :

System.out.println("Invalid option");

break;

}

System.out.println("\nDo you want to continue?");

ans=sx.next().charAt(0);

}

while(ans=='Y' || ans=='n');

}

}

-------------------------------------------------------------------------------------------------

package oss;

public interface shop {

public void cost(double cost);

}

---------------------------------------------------------------------------------------------------

package oss;

public class cloths implements shop {

public void cost(double cost)

{

System.out.println("cost of cloths");

System.out.println("cost "+cost);

}

}

-----------------------------------------------------------------------------------------------------

package oss;

public class watches implements shop {

public void cost(double cost)

{

System.out.println("cost of watches");

System.out.println("cost "+cost);

}

}

-------------------------------------------------------------------------------------------------

package oss;

public class shoes implements shop {

public void cost(double cost)

{

System.out.println("cost of shoes");

System.out.println("cost "+cost);

}

}

----------------------------------------------------------------------------------------------------

package oss;

public class mobiles implements shop {

public void cost(double cost)

{

System.out.println("cost of mobile");

System.out.println("cost "+cost);

}

}

---------------------------------------------------------------------------------------------------

OUTPUT