1. **Write a white box testing code ( junit ) to reverse a word and using assert statement for Proof the value**

import static org.junit.Assert.assertEquals;

import java.util.Scanner;

class saveethaTest

{

public static void main(String[] args)

{

String str;

char ch;

Scanner sc=new Scanner(System.in);

System.out.print("Enter a string : ");

str=sc.nextLine();

System.out.println("Reverse of a String '"+str+"' is :");

for(int j=str.length();j>0;--j)

{

System.out.print(str.charAt(j-1));

assertEquals("sse",str);

}

assertEquals("sse",str);

}}

2. **Write a white box testing code ( junit ) to String comparison of word and using assert statement for Proof the value**

import static org.junit.Assert.assertEquals;

import java.util.Scanner;

public class third {

public static void main(String [] args)

{

Scanner in=new Scanner(System.in);

System.out.println("enter the user name");

String str1=in.nextLine();

System.out.println("Reenter the user name");

String str2=in.nextLine();

assertEquals(str1,str2);

}

}

**3. Write a junit code for voting system and uses assert statement and verify the white box** testing?

**import** **static** org.junit.Assert.*assertTrue*;

**import** java.util.Scanner;

**class** four

{

**public** **static** **void** main(String[] args)

{

**int** age,shrt;

Scanner scan = **new** Scanner(System.***in***);

System.***out***.println(" Please enter your age");

age = scan.nextInt();

**if**(age>=18)

{

System.***out***.println("Welcome to voting system Yo can Vote");

}

**else**

{

shrt= (18 - age);

System.***out***.println("Sorry,You can vote after :"+ shrt + " years");

*assertTrue*(age==shrt);

} } }

4. **Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest; for all other customers, the ROI is 10 percent. The output values should verify using white box testing?**

import static org.junit.Assert.assertTrue;

import java.util.Scanner;

class intrest

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

float P=sc.nextFloat();

float R=sc.nextFloat();

float T=sc.nextFloat();

float SI = (P \* T \* R) / 100;

System.out.println("Simple interest = " + SI);

assertTrue(3600==SI);

}

}

**5. Given number is palindrome or not and verify The output values should verify using white box testing?**

**import** java.util.Scanner;

**import** **static** org.junit.Assert.*assertTrue*;

**public** **class** palindrome

{

**public** **static** **void** main(String args[])

{

Scanner in = **new** Scanner(System.***in***);

**int** r, sum = 0, temp; **int** n = in.nextInt();

temp = n;

**while** (n > 0)

{

r = n % 10; n = n / 10;

sum = (sum \* 10)+r;

}

System.***out***.println(sum);

*assertTrue*(787==sum);

**if**(temp==sum)

System.***out***.println(sum+" is palindrome number");

**else**

System.***out***.println(sum+" is not palindrome number");

}

}

**6.** **Write a program to convert Decimal number equivalent to Binary number and octal numbers? The output values should verify using white box testing?**

**import** **static** org.junit.Assert.*assertTrue*;

**import** java.util.Scanner;

**class** binary

{

**public** **static** **void** main(String[] args)

{ Scanner in = **new** Scanner(System.***in***);

**int** decimal = in.nextInt();

String binary = Integer.*toBinaryString*(decimal);

System.***out***.println("BINARY IS " + binary);

System.***out***.print("OCTAL IS ");

System.***out***.println(Integer.*toOctalString*(decimal));

*assertTrue*(14== decimal);

}

}

7. **Write a Java Program to Convert a Given Number of Days in Terms of Years, Weeks & Days. The output values should verify using white box testing?**

import static org.junit.Assert.assertTrue;

import java.util.Scanner;

public class year

{

public static void main(String args[])

{

int m, year, week, day;

Scanner s = new Scanner(System.in);

System.out.print("Enter the number of days:");

m = s.nextInt();

year = m / 365;

assertTrue(2==year);

m = m % 365;

System.out.println("No. of years:"+year);

week = m / 7;

m = m % 7;

System.out.println("No. of weeks:"+week);

day = m;

System.out.println("No. of days:"+day); }

}

8. **Find the factorial of n? The output values should verify using white box testing?**

import static org.junit.Assert.assertTrue;

import java.util.Scanner;

class factorial

{

public static void main(String[] args)

{

int i,j,pr=1;

try{

Scanner s=new Scanner(System.in);

System.out.println("Enter the number to find the factorial");

int n=s.nextInt();

if(n<0)

{

System.out.println("Invalid");

}

else if(n==0)

{

System.out.println("1");

}

else

{

for(i=n;i>0;i--)

{

pr=pr\*i;

}

System.out.println("The answer is:"+pr);

assertTrue(120==pr);

}

}

catch(Exception e)

{

System.out.println("Invalid");

}

}

}

9. **Find the year of the given date is leap year or not .The output values should verify using white box testing?**

import static org.junit.Assert.assertTrue;

import java.util.Scanner;

class leapyear

{

public static void main(String[] args)

{

int i=0;

System.out.println("Enter the date/month/year");

Scanner s=new Scanner(System.in);

String re=s.next();

String[] r=re.split("/",3);

int x=Integer.parseInt(r[2]);

assertTrue(x==2000);

if(x%4==0)

{

System.out.println("It is an leap year");

}

else{

System.out.println("It is not a leap year:");

}

}

}

**10. Write a program to find the square, cube of the given decimal number. The output values should verify using white box testing?**

import static org.junit.Assert.assertTrue;

import java.util.Scanner;

public class CubeSquare{

public static void main(String[] args)

{

try{

Scanner s=new Scanner(System.in);

System.out.println("Enter an number");

double n=s.nextDouble();

double a=0,b=0;

a=n\*n;

b=n\*n\*n;

System.out.println("The square of number="+a);

System.out.println("The square of number="+b);

}

catch(Exception e)

{

System.out.println("Invalid");

}

}

assertTrue(expected output==a);

assertTrue(expected output ==b);

}

Arms selemium :

package st1;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class arms {

public static void main(String[] args) {

System.out.println("hai");

System.setProperty("webdriver.gecko.driver ","C:\\CSA37 Lab details\\Sellinium and junit\\selenium jar\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

driver.manage().window().maximize();

driver.get("https://arms.sse.saveetha.com");

WebElement username=driver.findElement(By.id("txtusername"));

System.out.println(username);

WebElement password=driver.findElement(By.id("txtpassword"));

System.out.println(password);

WebElement login=driver.findElement(By.name("btnlogin"));

System.out.println(login);

username.sendKeys("192011080");

password.sendKeys("");

login.click();

}

}