**1-6-2021**

**Test -1**

4)String Program [10 marks] Word and Character count Sample Input: Hello welcome to india Output: Word->4 Character->19

Code:

**package** com.vm.training.exam1;

**public** **class** StringCharacterWordCount {

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

{

String s="Hello welcome to india";

**int** count1=1;

**int** count2=0;

**for**(**int** j=0;j<s.length()-1;j++)

{

**if**((s.charAt(j)==' ') && (s.charAt(j+1)!=' '))

{

count1++;

}

}

System.***out***.println("String ->"+count1);

**for**(**int** i=0;i<s.length();i++)

{

**if**(s.charAt(i)!=' ')

{

count2++;

}

}

System.***out***.println("Character ->"+count2);

}

}

**3)** A Java program that creates a Bank Account with withdraw, deposit, and intrest functions. And a tester class, that tests the SavingsAccount class. [10] Create a class SavingsAccount Declare the variable balance and interest, While opening an account initialize the balance and rateofinterest Do some transaction by giving with withdraw and deposit function and show the balance

Code:

class SavingsAccount

**package** com.vm.training.exam1;

**public** **class** SavingsAccount {

**private** **double** balance;

**private** **double** interest;

**public** SavingsAccount()

{

balance = 0;

interest = 0;

}

**public** SavingsAccount(**double** initialBalance, **double** initialInterest)

{

balance = initialBalance;

interest = initialInterest;

}

**public** **void** deposit(**double** amount)

{

balance = balance + amount;

}

**public** **void** withdraw(**double** amount)

{

balance = balance - amount;

}

**public** **void** addInterest()

{

balance = balance + balance \* interest;

}

**public** **double** getBalance()

{

**return** balance;

}

}

Class TestSavingsAccount

**package** com.vm.training.exam1;

**public** **class** TestSavingsAccount {

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

SavingsAccount savings = **new** SavingsAccount(1000, 0.10);

savings.withdraw(300);

savings.deposit(400);

savings.addInterest();

System.***out***.println(savings.getBalance());

System.***out***.println("Expected: 1500.0");

}

}

1)Wrestler Code:

Class Wrestler

**package** com.vm.training.exam1;

**public** **class** Wrestler {

**private** String firstname;

**private** String lastname;

**private** **int** weight;

**public** Wrestler(String firstname,String lastname, **int** weight) {

**super**();

**this**.firstname=firstname;

**this**.weight = weight;

**this**.lastname=lastname;

}

**public** String getFirstname() {

**return** firstname;

}

**public** **void** setFirstname(String firstname) {

**this**.firstname = firstname;

}

**public** String getLastname() {

**return** lastname;

}

**public** **void** setLastname(String lastname) {

**this**.lastname = lastname;

}

**public** **int** getWeight() {

**return** weight;

}

**public** **void** setWeight(**int** weight) {

**this**.weight = weight;

}

}

2)Employee

**package** com.vm.training.exam1;

**public** **class** Employee {

**private** String firstName;

**private** String lastName;

**public** Employee(String firstName, String lastName) {

**super**();

**this**.firstName = firstName;

**this**.lastName = lastName;

}

**void** Validation() **throws** Exception

{

**if**(firstName==**null** && lastName==**null** )

{

**throw** **new** NullPointerException("Entry Missing");

}

**if**(firstName.length()<3 && lastName.length()<3 )

{

**throw** **new** Exception("name should be minimum 3 character");

}

}

}

TestEmployee:

**package** com.vm.training.exam1;

**import** java.util.Scanner;

**public** **class** TestEmployee {

**public** **static** **void** main(String[] args) **throws** Exception {

// **TODO** Auto-generated method stub

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

System.***out***.print("enter firstname : ");

String firstname=sc.next();

System.***out***.print("enter lastname : ");

String lastname=sc.next();

Employee emp=**new** Employee(firstname,lastname);

emp.Validation();

}

}