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Core Java Assignment

Day 1:

Que 1.

Code:

**import** java.util.Scanner;

**public** **class** Que\_one {

**double** bill;

**public** **void** getBill(**double** units) {

**if**(units < 100) {

bill = units \* 1.20;

System.***out***.println("Bill is: Rs."+bill);

}

**if**(units <= 300) {

bill = (100) \* 1.20 + (units-100) \* 2;

System.***out***.println("Bill is: Rs."+bill);

}

**if**(units > 300) {

bill = (100 \* 1.20) + (200 \* 2) + (units - 300) \* 3;

System.***out***.println("Bill is: Rs."+bill);

}

}

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

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

**double** units;

System.***out***.println("Enter no. of units:");

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

units = sc.nextInt();

Que\_one qo = **new** Que\_one();

qo.getBill(units);

}

}

Output:

Enter no. of units:

350

Bill is: Rs.670.0

Que 2.

Code:

**import** java.util.Random;

**public** **class** Que\_two {

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

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

**int** total\_runs = 0;

**int** count\_1 = 0, count\_2 = 0, count\_3 = 0, count\_4 = 0, count\_5 = 0, count\_6 = 0;

**int** runs[] = **new** **int**[30];

Random rn =**new** Random();

**for**(**int** i = 0; i < 30; i++) {

runs[i] = rn.nextInt(6)+1;

}

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

total\_runs = total\_runs + runs[i];

}

System.***out***.println("Total runs are: "+total\_runs);

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

**if**(runs[i] == 1) {

count\_1++;

}

**if**(runs[i] == 2) {

count\_2++;

}

**if**(runs[i] == 3) {

count\_3++;

}

**if**(runs[i] == 4) {

count\_4++;

}

**if**(runs[i] == 5) {

count\_5++;

}

**if**(runs[i] == 6) {

count\_6++;

}

}

System.***out***.println("No. of 1s is: "+count\_1);

System.***out***.println("No. of 2s is: "+count\_2);

System.***out***.println("No. of 3s is: "+count\_3);

System.***out***.println("No. of 4s is: "+count\_4);

System.***out***.println("No. of 5s is: "+count\_5);

System.***out***.println("No. of 6s is: "+count\_6);

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

System.***out***.println("Runs per ball are: "+(total\_runs/30));

}

}

Output:

Total runs are: 89

No. of 1s is: 10

No. of 2s is: 4

No. of 3s is: 3

No. of 4s is: 6

No. of 5s is: 4

No. of 6s is: 3

Runs per ball are: 2

Que 3.

Code:

**import** java.util.Random;

**public** **class** Que\_three {

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

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

**int** total\_runs = 0;

**int** count\_1 = 0, count\_2 = 0, count\_3 = 0, count\_4 = 0, count\_5 = 0, count\_6 = 0;

**int** runs[] = **new** **int**[150];

Random rn =**new** Random();

**for**(**int** i = 0; i < 150; i++) {

runs[i] = rn.nextInt(6)+1;

}

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

total\_runs = total\_runs + runs[i];

}

System.***out***.println("Total runs are: "+total\_runs);

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

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

**if**(runs[i] == 1) {

count\_1++;

}

**if**(runs[i] == 2) {

count\_2++;

}

**if**(runs[i] == 3) {

count\_3++;

}

**if**(runs[i] == 4) {

count\_4++;

}

**if**(runs[i] == 5) {

count\_5++;

}

**if**(runs[i] == 6) {

count\_6++;

}

}

System.***out***.println("No. of 1s is: "+count\_1);

System.***out***.println("No. of 2s is: "+count\_2);

System.***out***.println("No. of 3s is: "+count\_3);

System.***out***.println("No. of 4s is: "+count\_4);

System.***out***.println("No. of 5s is: "+count\_5);

System.***out***.println("No. of 6s is: "+count\_6);

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

System.***out***.println("Runs per ball are: "+(total\_runs/30));

}

}

Output:

Total runs are: 492

No. of 1s is: 28

No. of 2s is: 27

No. of 3s is: 27

No. of 4s is: 29

No. of 5s is: 21

No. of 6s is: 18

Runs per ball are: 16

Que 4.

Code:

**package** demo;

**import** java.util.Scanner;

**public** **class** BankAccount {

BankAccount(){

}

**int** accNo;

**double** bal;

String password;

**static** String *bankName* = "State Bank of India";

**public** **void** setBankAccount() {

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

System.***out***.println("Enter Acc\_No: ");

accNo = sc.nextInt();

System.***out***.println("Enter Bal: ");

bal = sc.nextDouble();

sc.nextLine();

System.***out***.println("Enter password: ");

password = sc.nextLine();

System.***out***.println("Bank account set\n");

}

**public** **void** show() {

System.***out***.println("\nAccount details are:");

System.***out***.println("password: " + password);

System.***out***.println("Acc\_No: " + accNo);

System.***out***.println("Balance: " + bal);

System.***out***.println("Thank you for choosing us as your bank...!\n");

}

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

**int** n, i;

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

System.***out***.println("Enter no. of accounts to be added: ");

n = s.nextInt();

BankAccount allAccounts[] = **new** BankAccount[n];

**for**(i = 0; i < n; i++) {

allAccounts[i] = **new** BankAccount();

}

System.***out***.println("Welcome to "+BankAccount.*bankName*);

**int** ch;

**do** {

System.***out***.println("Choose from the following:");

System.***out***.println("1. Insert Account\t2. Show\n0. Exit");

ch = s.nextInt();

**switch**(ch) {

**case** 1:

**for**(i = 0; i < n; i++) {

allAccounts[i].setBankAccount();

}

**break**;

**case** 2:

**for**(i = 0; i < n; i++) {

allAccounts[i].show();

}

**break**;

**case** 0:

System.***out***.println("Setting up accounts completed.");

**break**;

}

}**while**(ch != 0);

}

}

Output:

Enter no. of accounts to be added:

2

Welcome to State Bank of India

Choose from the following:

1. Insert Account 2. Show

0. Exit

1

Enter Acc\_No:

101

Enter Bal:

5000

Enter password:

Tejas123

Bank account set

Enter Acc\_No:

102

Enter Bal:

10000

Enter password:

Shreyas123

Bank account set

Choose from the following:

1. Insert Account 2. Show

0. Exit

2

Account details are:

password: Tejas123

Acc\_No: 101

Balance: 5000.0

Thank you for choosing us as your bank...!

Account details are:

password: Shreyas123

Acc\_No: 102

Balance: 10000.0

Thank you for choosing us as your bank...!

Choose from the following:

1. Insert Account 2. Show

0. Exit

0

Setting up accounts completed.