**Practice Questions**

1. List out even numbers using java.
2. Write a java program to solve quadratic equation.
3. Java program to find number of days in a month.
4. Write a java program that takes a year from the user and print whether it is leap year or not.
5. Write a program to display the cube of number upto given integer.
6. Write a program to find sum of all integer greater than 100 and less than 200 that are divisible by 7.
7. Write a program to accept a number and check and display whether it is a Niven number or not.(sum of a digits is divisible by that number eg.18,1+8=9,18 will be divided by 9).
8. Write a program to check whether it is a Emirp number or not. (It means the number is prime even it is reversed eg.13 is a prime and 31 is also prime.
9. write program to create a class that stores the grocery details,In addition define 3 methods that will add the weight,remove the weight,and display the current weight
10. Write a program to find out the number of illiterate men from the poulation of 80,000 people.From the total population,52% are men,out of which only 32% are literate
11. Write a program to check if the first number is divided by the second number or not.
12. The production(p) of the crude oil of a country in millions of barrels may be estimated by the following set of equation ,where t represents the time duration in years: p=5+3t for 0<=t<=3 p=14+(t-5/2)2 for t>3 Write a program in java to input a year from the user and find and print the production for every year from the year 2000 to the inputted year. print the output in the following format: year production --------------- ----------------- --------------- -----------------
13. A cloth show room has announced the following seasonal discounts on purchase of items:

|  |  |  |
| --- | --- | --- |
| **Purchase Amount**  **(in Rupees)** | **Discount** | |
| **Mill cloth** | **Handloom Items** |
| 0-1000 | -------- | 5% |
| 1001-2000 | 5% | 7.5% |
| 2001-3000 | 7.5% | 10% |
| Above 3000 | 10% | 15% |

Write a program to input the purchase amount and item code viz : M for mill Cloth and H for handloom. Calculate the discount amount. Find the net balance to be paid excluding the discount. Print Purchase Amount, Item Type, Discount and the net amount to be paid.

14.Room Booking

admin

{ //authentication

Category-AC,Non-Ac,Double room,singe room

printf("Enter Room category")

if(room=="ac")

{

printf("No of ac rooms")

scanf(ac);=10

ac room rent per day

}

user

{

Register

Name

dob

Username

Password

confirm password

if(pass=cpass)

{

printf("Successfully register");

}

Login

if(username==uname && password==pass)

{

case 1:

display ac room details

}

room booking

{

authentication

printf(room category)

if(room==ac)

{

no of days

no.of.rooms

ac=ac-rooms;

total amount=n\*ac room amt;

}