**1)Prob 1** : Write a program that takes an integer, then a string, then a char from the user and prints them in the screen.

**CODE:**

import java.util.Scanner;

class Main {

public static void main(String[] args) {

System.out.println("Enter the inputs:");

Scanner scan =new Scanner(System.in);

int num = scan.nextInt();

scan.nextLine();

String num1=scan.nextLine();

char num2 = scan.nextLine().charAt(0);

System.out.println("Integer:"+num);

System.out.println("String:"+num1);

System.out.println("Character:"+num2);

}

}

**OUTPUT:**

Enter the inputs:

2

Name

y

Integer:2

String:Name

Character:y

**2) Prob 2:** Write a program to check whether a triangle can be formed with the given values for the angles.

**CODE:**

import java.util.Scanner;

class Main {

public static void main(String[] args) {

System.out.println("Enter the three angles:");

Scanner angle=new Scanner(System.in);

int a=angle.nextInt();

int b=angle.nextInt();

int c=angle.nextInt();

int sum =a+b+c;

if(sum ==180)

{

System.out.println("Triangle can be formed");

}

else

{

System.out.println("Triangle can't be formed");

}

}

}

**OUTPUT:**

Enter the three angles:

45

45

45

Triangle can't be formed

Enter the three angles:

60

60

60

Triangle can be formed

**3)Prob 3:**

Given mark of student, Print the Grade

Grade A if mark is greater than or equal to 90

Grade B if mark is greater than or equal to 80

Grade C if mark if greater than or equal to 60

Grade D if mark if greaer than or equal to 35

Fail if mark is lesser than 35

**CODE:**

import java.util.Scanner;

class Main {

public static void main(String[] args) {

System.out.println("Enter the marks:");

Scanner marks =new Scanner(System.in);

int grade=marks.nextInt();

if(grade>=90)

{

System.out.println("Grade A");

}

else if (grade>=80)

{

System.out.println("Grade B");

}

else if(grade >=60)

{

System.out.println("Grade C");

}

else if(grade >=35)

{

System.out.println("Grade D");

}

else

{

System.out.println("Fail");

}

}

}

**OUTPUT:**

Enter the marks:

95

Grade A

**Prob 4**: Write a program using switch case which takes a value and prints the respective Size.  
If size is 29 then its small.

**CODE:**

import java.util.Scanner;

class Main {

public static void main(String[] args) {

System.out.println("Enter the size:");

Scanner value =new Scanner(System.in);

int size=value.nextInt();

switch(size)

{

case 29:

System.out.println("small");

break;

case 30:

System.out.println("Medium");

break;

case 38:

System.out.println("Large");

break;

case 42:

System.out.println("XLarge");

default:

System.out.println("Invalid");

break;

}

}

}

**OUTPUT:**

Enter the size:

29

Small