**Home Work**

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Write a Java program to generate students grade

<50:Fail

>=50 & <60: D grade

>=60 & <70: C grade

>=70 & <80: B grade

>=80 & <90: A grade

>=90 & <=100: A+ grade

import java.util.Scanner;

class Asg

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

char c;

do

{

System.out.print("Enter the marks out of 100: ");

int m=sc.nextInt();

if(m<=100 && m>=0)

{

if(m<50)

System.out.println("Fail");

else if (m<60)

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

else if (m<70)

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

else if (m<80)

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

else if (m<90)

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

else if (m<=100)

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

}

else

System.out.println("Invalid input");

System.out.println("Do you want to continue (Y/N): ");

c=sc.next().charAt(0);

}while (c=='y' || c=='Y');

}

}

Write a Java program to check if the number provided by the user is prime or not.

import java.util.Scanner;

class Asg

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

char c;

do

{

int x=0;

System.out.print("Enter any number: ");

int n=sc.nextInt();

for(int i =2; i<n; i++)

{

if(n%i==0)

{

x++;

break;

}

}

if(x==0)

System.out.println("The number is prime");

else

System.out.println("The number is not prime");

System.out.println("Do you want to continue (Y/N): ");

c=sc.next().charAt(0);

}while (c=='y' || c=='Y');

}

}