**Q1.**

**package** basic\_PF;

**import** java.util.Scanner;

**public** **class** modifiedSeries {

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

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

**int** next=0;

System.***out***.println("Enter two numbers");

**int** num1 = s.nextInt();

**int** num2 = s.nextInt();

System.***out***.println("Enter the n");

**int** n= s.nextInt();

System.***out***.println(num1 + "\n"+ num2);

**for**(**int** i=3;i<=n;i++){

**if**(i%2==0){

next=num1-num2;

}**else**{

next=num1+num2;

}

num1=num2;

num2=next;

System.***out***.println(next+" " );

}

}

}

**Q2**

**package** basic\_PF;

**import** java.util.Scanner;

**public** **class** piglatin {

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

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

**char** arr1[]={'A','B','C'};

**for**(**int** i=0;i<3;i++){

**int** index = 'Z'-arr1[i];

**char** ch= (**char**)('A'+index);

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

}

}

}

**Q3**

**package** basic\_PF;

**import** java.util.Scanner;

**public** **class** upperToLower {

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

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

**char** ch;

**int** temp;

System.***out***.println("Enter a character");

ch=s.next().charAt(0);

temp=ch;

**if**(temp>=97 && temp<=123){

temp=temp-32;

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

}**else** **if**(temp>=65 && temp<=91){

temp=temp+32;

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

}**else**{

System.***out***.println("Not an alphabetical value.");

}

}

}

**Q4**

**package** basic\_PF;

**public** **class** pyramidPattern {

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

String str="School";

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

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

System.***out***.print(str.charAt(j));

}

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

}

}

}