**Decision**

**➢ Write a program to check whether the given character is Vowel/not (Use switch-case).**

***PROGRAM***

class Vowel

{

public static void main(String args[])

{

char b= 'e';

char w='A';

switch(b)

{

case 'a':

System.out.println("Vowel");

break;

case 'e':

System.out.println("Vowel");

break;

case 'i':

System.out.println("Vowel");

break;

case 'o':

System.out.println("Vowel");

break;

case 'u':

System.out.println("Vowel");

break;

default:

System.out.println("Cosonent");

}

switch(w)

{

case 'A':

System.out.println("Vowel");

break;

case 'E':

System.out.println("Vowel");

break;

case 'I':

System.out.println("Vowel");

break;

case 'O':

System.out.println("Vowel");

break;

case 'U':

System.out.println("Vowel");

break;

default:

System.out.println("Cosonent");

}

}

}

**OUTPUT**

C:\Users\user\Desktop\java>java Vowel

Vowel

Cosonent

C:\Users\user\Desktop\java>javac Vowel.java

C:\Users\user\Desktop\java>java Vowel

Vowel

Vowel

**➢ Write a program to find the grade of a Student based on total marks Mark less than 40- Failed 40 to 60–Grade D 61 to 70-Grade C 71 to 80-Grade B 81 to 100-Grade A**

**PROGRAM**

class GradeMarks{

public static void main( String args[])

{

int mark=31;

if(mark<=40)

{

System.out.println("failed");

}

else if(mark<=60)

{

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

}

else if(mark<=70)

{

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

}

else if(mark<=80)

{

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

}

else{

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

}

}

}

**OUTPUT**

C:\Users\user\Desktop\java>javac GradeMarks.java

C:\Users\user\Desktop\java>java GradeMarks

Grade D

C:\Users\user\Desktop\java>javac GradeMarks.java

C:\Users\user\Desktop\java>java GradeMarks

Grade A

C:\Users\user\Desktop\java>javac GradeMarks.java

C:\Users\user\Desktop\java>java GradeMarks

Grade B

C:\Users\user\Desktop\java>javac GradeMarks.java

C:\Users\user\Desktop\java>java GradeMarks

Grade C

C:\Users\user\Desktop\java>javac GradeMarks.java

C:\Users\user\Desktop\java>java GradeMarks

failed

**Looping statement**

**Write a program to print Fibonacci series[0 1 1 2 3 5].**

**PROGRAM**

class Fibonocci

{

public static void main(String args[])

{

int first=0;

int second=1;

int next;

System.out.println(first);

System.out.println(second);

for(int i=3;i<10;i++)

{

next=first+second;

System.out.println(next);

first=second;

second=next;

}

}

}

**OUTPUT**

0

1

1

2

3

5

8

13

21

**➢ Write a program to find the reverse of number.**

**PROGRAM**

class ReverseNum

{

public static void main(String args[])

{

int num=1234;

int reverse=0;

int a;

while(num>0)

{

a=num%10;

reverse=reverse\*10+a;

num=num/10;

}

System.out.println("Reversed number is " +reverse);

}

}

**OUTPUT**

C:\Users\user\Desktop\java>javac ReverseNum.java

C:\Users\user\Desktop\java>java ReverseNum

Reversed number is 4321