Practical No 1

```
import java.util.Scanner;
class Vehicle {
  public static void main(String args[]) {
   int i ,n,t;
   float d,u,a;
   Scanner sc=new Scanner(System.in);
   System.out.print(" enter the number of intervals");
   n=sc.nextInt();
   for(i=1;i \le n;i++)
     System.out.println(" intervals="+n);
     System.out.print(" enter the Second =");
    t=sc.nextInt();
     System.out.print(" enter the acceleration =");
    a=sc.nextFloat();
     System.out.print(" enter the velocity =");
    u=sc.nextFloat();
    d=(u^*t)+a^*((t^2)/2);
     System.out.println(" Distance ="+d);
  }
 Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
 Install the latest PowerShell for new features and improvements! https
PS D:\Java> javac Vechicle.java
error: file not found: Vechicle.java
Usage: javac <options> <source files>
use --help for a list of possible options
PS D:\Java> javac Vehicle.java
PS D:\Java> java Vehicle
   enter the number of intervals 2
    intervals=2
    enter the Second =2
enter the acceleration =6
enter the velocity =4
   Distance =8.0
intervals=2
 enter the Second =7
enter the acceleration =3
enter the velocity =4
Distance =34.0
PS D:\Java> |
```

1]Pattern program Diamond

```
import java.util.*;
import java.io.*;
class Pyramid1
 public static void main(String args[])
 {
         Scanner sc=new Scanner(System.in);
         int row;
         int i,j;
         int space;
         System.out.println("enter the rows");
         row=sc.nextInt();
         for(i=0;i< row/2+1;i++)
         for(space=i;space<row/2;space++)</pre>
                  System.out.print(" ");
                  for (j=0;j<=i;j++)
                          System.out.print("* ");
                  System.out.println(" ");
         }
         for(i=0;i< row/2;i++)
         for(space=0;space<=i;space++)</pre>
                 {
             System.out.print(" ");
                 }
                 for (j=0;j<row/2-i;j++)
```

2] Pattern program of K shape

PS D:\Java>

```
import java.util.*;
import java.io.*;
class K
{
   public static void main(String args[])
{
   int i,j,n;
   Scanner sc=new Scanner(System.in);
   System.out.println(" Enter the number");
   n=sc.nextInt();
   for(i=1; i<n;i++)
   {
    for(j=i; j<=n; j++)</pre>
```

```
{
  System.out.print(" * ");
  System.out.println("");
}
 for(i=0; i<n; i++)
  System.out.print(" * ");
 for(j=1; j<=i; j++)
  System.out.print(" * ");
  System.out.println("");
}
Install the latest PowerShell for new features and improveme
PS D:\Java> javac K.java
PS D:\Java> java K
 Enter the number
PS D:\Java>
```

3] Pattern program Square

```
import java.util.*;
import java.io.*;
class Square
{
 public static void main(String args[])
 int i,j,n;
 Scanner sc=new Scanner(System.in);
  System.out.println(" Enter the number");
 n=sc.nextInt();
 for(i=0; i<n; i++)
  for(j=0; j<n; j++)
  System.out.print(" * ");
   System.out.println("");
 }
```

4]Pattern program Triangle

```
1]
import java.util.*;
import java.io.*;
class Triangle
{
 public static void main(String args[])
 int i,j,n;
  Scanner sc=new Scanner(System.in);
  System.out.println(" Enter the number");
  n=sc.nextInt();
 for(i=0; i<n; i++)
  System.out.print(" * ");
  for(j=1; j<=i; j++)
  System.out.print(" * ");
   System.out.println("");
 }
PS D:\Java> javac Triangle.java
PS D:\Java> java Triangle
Enter the number
```

```
2]
```

```
import java.util.*;
import java.io.*;
class Triangle3
 public static void main(String args[]) {
         Scanner sc=new Scanner(System.in);
         int row;
         int i,j;
         int space;
         System.out.println("enter the rows");
         row=sc.nextInt();
         for(i=0;i<row;i++)
     for(space=i;space<row;space++)</pre>
                  System.out.print(" ");
                  for (j=0;j<=i;j++)
                           System.out.print("* ");
                  System.out.println(" ");
         }
}
}
         PS D:\Java> javac Triangle3.java
PS D:\Java> java Triangle3
enter the rows
7
```

```
3]
```

```
import java.util.*;
import java.io.*;
class Triangle4
 public static void main(String args[]) {
        Scanner sc=new Scanner(System.in);
        int row;
        int i,j;
        int space;
        System.out.println("enter the rows");
        row=sc.nextInt();
        for(i=0;i< row;i++) {
            for(space=0;space<=i;space++)</pre>
                System.out.print(" ");
               for (j=0;j<row-i;j++)
                       System.out.print("* ");
                }
                System.out.println(" ");
        }
}
         PS D:\Java> javac Triangle4.java
         PS D:\Java> java Triangle4
         enter the rows
```