

pt 1:

```
public class pt1 {  
    public static void main(String[] args) throws Exception {  
        //Find area of circle  
        double rad = 2.5;  
        var area = 3.14159 * rad * rad;  
        System.out.println(area);  
    }  
}
```

res: 19.6349375

pt 2:

```
public class pt2 {  
    //print 3 tic tac toe results with the spacing increasing each time  
    public static void main(String[] args) {  
        System.out.println("010\n100\n001\n\n");  
        System.out.println(" 0 0 0\n 1 1 1 \n\n 1 0 1\n\n");  
        System.out.println("   0 1 1\n   0 0 0\n   1 1 0");  
    }  
}
```

res: 010

100

001

0 0 0

1 1 1

1 0 1

0 1 1

0 0 0

1 1 0

pt 3:

```
public class pt3 {  
    public static void main(String[] args) {  
        //find area of triangle  
        var base = 3.5;  
        var height = 4.85;  
        var triangle = (base*height)/2;  
        System.out.println(triangle);  
    }  
}
```

```
}
```

res: 8.487499999999999

pt 4:

```
public class pt4 {  
    public static void main(String[] args) {  
        //convert miles to kilometers  
        var miles = 60;  
        var mtk = 1.60934;  
        System.out.println(miles*mtk);  
    }  
}
```

res: 96.5604

pt 5:

```
public class pt5 {  
    public static void main(String[] args) {  
        //Write a sequence of cout statements to display your initials (2 – 3 letters) using a cool pattern for each letter.  
        System.out.println("SR");  
        System.out.println("S.r");  
        System.out.println("s.R");  
        System.out.println("S.R.");  
        System.out.println("□ □ □ □ □ □ □ □ □ \n□ □ □ □ □ □ □ □ □ \n□ □ □ □ □ □ □ □ □ \n□ □ □ □ □ □ □ □ □ \n□ □ □ □ □ □ □ □ □ \n□ □ □ □ □ □ □ □ □ \n");  
        System.out.println("    SSSS RRRR\n    SS  R R\n    SS RRR\n    SSSS R R");  
        System.out.println("    SSSSSSSSSSSSSSS RRRRRRRRRRRRRRRRRRRR \n    SS.....SR.....R \n    S.....SSSSSS.....SR.....RRRRRR.....R \n    S.....S    SSSSSSSRR.....R    R.....R\n    S.....S    R.....R    R.....R\n    S.....SSSS    R.....RRRRRR.....R \n    SS.....SSSSS    R.....RR \n    SSS.....SS    R.....RRRRRR.....R \n    SSSSSS.....S    R.....R    R.....R\n    S.....S    R.....R \n    S.....S    R.....R \n    SSSSSSS    S.....SRR.....R    R.....R\n    S.....SSSSSS.....SR.....R \n    R.....R\n    S.....SS R.....R    R.....R \n    SSSSSSSSSSSSSSS RRRRRRRRR    RRRRRRRR");  
    }  
}
```

res: SR

S.r

s.R

S.R.

```
□ □ □ □ □ □ □ □ □  
□ □ □ □ □ □ □ □ □  
□ □ □ □ □ □ □ □ □  
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□ □ □ □ □ □ □ □ □  
□ □ □ □ □ □ □ □ □  
SSSS RRRR  
SS  R R  
SS RRR  
SSSS R R
```

```

SSSSSSSSSSSSSSSS RRRRRRRRRRRRRRRRRRR
SS:.....SR:.....R
S:..SSSSSS:..SR:..RRRRRR:..R
S:..S  SSSSSSSRR:..R  R:..R
S:..S      R:..R  R:..R
S:..S      R:..R  R:..R
S:..SSSS      R:..RRRRRR:..R
SS:..SSSSS  R:.....RR
SSS:..SS  R:..RRRRRR:..R
SSSSSS:..S  R:..R  R:..R
S:..S R:..R  R:..R
S:..S R:..R  R:..R
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S:..SSSSSS:..SR:..R  R:..R
S:.....SS R:..R  R:..R
SSSSSSSSSSSSSSSS RRRRRRRRR  RRRRRRR

```

pt 6:

```
import java.util.Scanner;
```

```

public class pt6 {
    public static void main(String[] args) {
        //Have user enter a number, then double it
        System.out.println("Enter a number");
        Scanner input = new Scanner (System.in);
        int number = input.nextInt();
        System.out.println("Double " + number + " = " + (number * 2));
        input.close();
    }
}

```

res: Enter a number

2

Double 2 = 4