

(1)

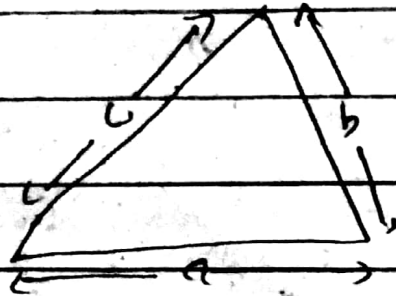
Name Younis Khan  
ID 12422  
Dpt BSc Telecommunication  
Semester Summer II

Q No 2. Ans 3-

Given side (a, b, c) of a triangle, we have to calculate the parameter of a triangle.

Parameter:-

Parameter of a triangle is the sum of the length of side of triangle.



Where a, b, c are length of side of triangle.

$$\text{Parameter} = (a + b + c)$$

eg:-

$$a = 2.0, b = 3.0, c = 5.0$$

// java program to find parameter  
// of triangle.

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```
class Test {  
    static float findPerimeter (float a,  
    (float b, float c)  
    {  
        // formula for perimeter of  
        // Triangle  
        return (a+b+c);  
    }  
    // driver method  
    public static void main (String[]  
        args)  
    {  
        float a=2.0, b=3.0, c=5.0;  
        System.out.println (findPerimeter(  
            a,b,c));  
    }  
}
```

output = 10.0

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10

2081

```
/**
 * program to find diameter
 * of circle, circumference and
 * area of circle.
```

```
import java.util.Scanner;
public class circle {
    public static void main(String[] args) {
```

```
        // declare constant for pi
```

```
        final double PI = 3.141592653;
```

```
        Scanner in = new Scanner(System.in);
```

```
        /* input radius of circle from user. */
```

```
        System.out.println("Please enter radius of
                               circle:");
```

```
        int r = in.nextInt();
```

```
        /* calculate diameter, circumference
           and area. */
```

```
        int d = 2 * r;
```

```
        double circumference = 2 * PI * r;
```

```
        double area = PI * r * r;
```

```
        /* Print diameter, circumference and
           area of circle. */
```

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```
System.out.println("Diameter of  
circle is: " + d);
```

```
System.out.println("Circumference of  
circle: " + circumference);
```

```
System.out.println("Area of circle: " + area  
area);
```

```
}
```

```
}
```

Output:

please enter radius of  
circle: 20

Diameter of circle is = 40

Circumference of circle is: 125.66

370672

Area of circle is: 1256.6370612

Qno 3:

check leap?

```
public class leapyear {
```

```
public static void main(String[]
```

```
args) {
```

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```
int year = 1900;
```

```
boolean leap = false;
```

```
if (year % 4 == 0)
```

```
{
```

```
    if (year % 100 == 0)
```

```
{
```

```
    // year is divisible by 400, hence
```

```
    the year is a leap year
```

```
    if (year % 400 == 0)
```

```
        leap = true;
```

```
    else
```

```
        leap = false;
```

```
    }
```

```
    else
```

```
        leap = false true;
```

```
    }
```

```
    else
```

```
        leap = false;
```

```
    if (leap)
```

```
        System.out.println(year + " is a leap  
year.");
```

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else

```
system.out.println(year + "
```

```
is not a leap  
year.");
```

```
}
```

```
}
```

output

1900 is not a leap year

When you change the value  
of year to 2012, the out will  
be :

2012 is a leap year.

Ques 4:-

```
/* Java program Example - Check  
for vowel */
```

```
import java.util.Scanner;  
public class JavaProgram  
{
```

7)

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

```
    char ch;
```

```
    Scanner scan = new Scanner (System  
                                .in);
```

```
    System.out.println ("Enter an Alphabet  
                        :");
```

```
    ch = scan.next().charAt(0);
```

```
    if (ch == 'a' || ch == 'A' || ch == 'e' ||
```

```
        ch == 'E' || ch == 'i' || ch == 'I'
```

```
        || ch == 'o' || ch == 'O' ||
```

```
        ch == 'u' || ch == 'U')
```

```
    {
```

```
        System.out.println ("This is a  
                             vowel");
```

```
    }
```

```
    else
```

```
    {
```

```
        System.out.println ("This is  
                             not a vowel");
```

```
    }
```

```
}
```

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Output =)

Enter an Alphabet: e

This is a vowel

Enter an Alphabet: t

This is not a vowel.

Program:-

SNO5:

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

```
public class PowerofNumber {
```

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

```
Scanner sc = new Scanner (System.in);
```

```
System.out.println ("Enter the base no. :");
```

```
int base = sc.nextInt();
```

```
int temp = base;
```

```
System.out.println ("Enter the exponent no. :");
```

```
int exp = sc.nextInt();
```

```
for (int i = 1; i <= exp; i++) {
```

```
temp = temp * temp;
```

```
}
```

```
System.out.println ("Result of "+base
```

```
+ " power " + exp + " is
```

```
is "+temp);
```



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}

}

output:-

Enter the base no ::

12

Enter the exponent no ::

2

Result of 12 power 2 is 144