

Name: Awaiz Ghaffar
ID: 15269
Paper: LAB.
Subject: OOP.
Teacher: M. Sir Ayoub.

Q NO: # 1 .

```
1 package Awais;
2 import java.util.Scanner;
3
4 public class Parameter {
5
6
7
8     public static void main(String[] args) {
9
10         Scanner in = new Scanner(System.in);
11         System.out.println("Please enter first value R= : ");
12         int r = in.nextInt();
13         System.out.println("Please enter Second value A=: ");
14         int a=in.nextInt();
15         System.out.println("Please enter third value T= : ");
16         int t=in.nextInt();
17         //diameter formula
18         int d = a +r + t;
19         System.out.println("Parameter of triangle is = " + d);
20
21     }
22 }
23
24
25
```

```
<terminated> Parameter [Java Application] C:\Program Files\Java\jre1.
Please enter first value R= :
3
Please enter Second value A=:
4
Please enter third value T= :
5
Parameter of triangle is = 12
```


Q NO : # 2

```
Circle.java  *Diameter.java  Outline  Console
1 package Awais;
2 import java.util.Scanner;
3
4 public class Diameter {
5
6
7
8     public static void main(String[] args) {
9
10        Scanner in = new Scanner(System.in);
11        System.out.println("Please enter radius of the circle : ");
12        int r = in.nextInt();
13        //diameter formula
14        int d = 2 * r;
15        System.out.println("Diameter of circle is : " + d);
16
17    }
18
19
20
```

<terminated> Diameter [Java Application] C:\Program Files\Java\jre1.8
Please enter radius of the circle :
8
Diameter of circle is : 16

Q NO: # 3

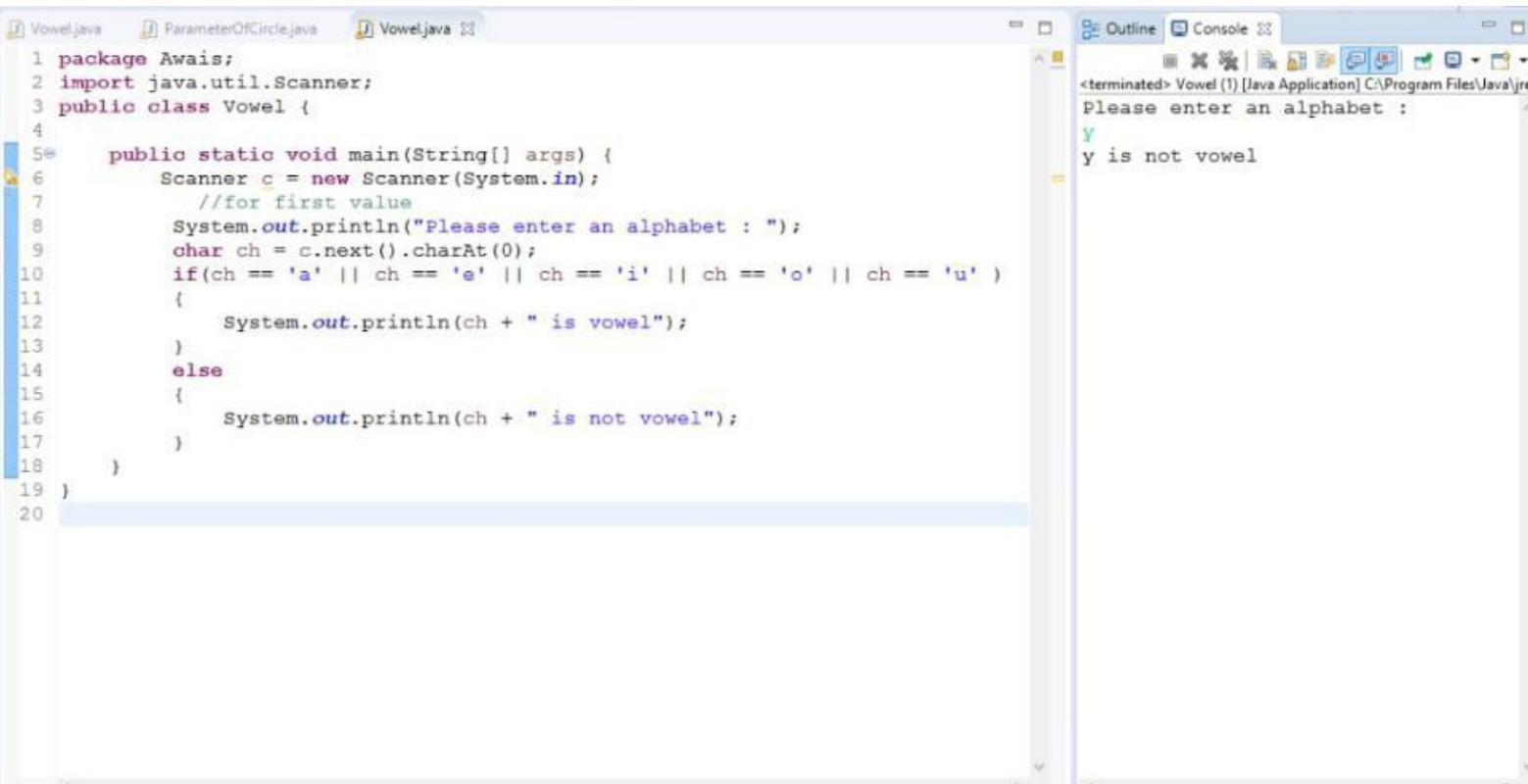
```
Circle.java Diameter.java Parameter.java ParameterOfCircle.java LeapYear.java "Leap_year.java"
1 package Awais;
2 import java.util.Scanner;
3 public class Leap_year {
4     public static void main(String[] args) {
5         Scanner in = new Scanner(System.in);
6         System.out.println("Please enter year= : ");
7         int year = in.nextInt();
8         boolean leap = false;
9         if(year % 4 == 0)
10            {
11                if( year % 100 == 0)
12                    {
13                        if ( year % 400 == 0)
14                            leap = true;
15                        else
16                            leap = false;
17                    }
18                else
19                    leap = true;
20            }
21        else
22            leap = false;
23        if(leap)
24            System.out.println(year + " is a leap year.");
25        else
26            System.out.println(year + " is not a leap year.");
27    }
28 }
29
```

```
Outline Console
<terminated> Leap_year [Java Application] C:\Program Files\Java\jre1.
Please enter year= :
2020
2020 is a leap year.
```

Q NO:

#

4



Q: NO: # 5,

```
1 package Awaiz;
2 import java.util.Scanner;
3 public class Power
4 {
5     public static void main(String arg[])
6     {
7         int num,power,s=1;
8         Scanner in=new Scanner(System.in);
9         System.out.println("number is");
10        num=in.nextInt();
11        System.out.println("power is");
12        power=in.nextInt();
13        if(num>=0&&power==0)
14        {
15            s =1;
16        }
17        else if(num==0&&power>=1)
18        {
19            s=0;
20        }
21        else
22        {
23            for(int i=1;i<=power;i++)
24            {
25                s=s *num;
26            }
27        }
28        System.out.println(num+"^"+power+"="+s);
29    }
30 }
31 }
32 }
```

```
<terminated> Power (!) [Java Application] C:\Program Files\Java\jre1
number is
2
power is
2
2^2=4
```