

## ASSIGNMENT NO 2

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**Que.1) Write a program to find the area of circle by inputting the radius**

```
import java.util.Scanner;

public class Main
{
    public static void main(String[] args) {
        double radius,Area;

        Scanner sc = new Scanner (System.in);

        radius=sc.nextDouble();

        Area=2*3.14*radius*radius;
        System.out.println("The Area is" + " "+ Area);

    }
}
```

**Output=**

**2**

**The Area is 25.12**

**Que.2 Write a program to create 2 integer variables and find the sum,diff,prod .**

```
import java.util.Scanner;

public class Main
{
    public static void main(String[] args) {

        double number1,number2;

        Scanner input = new Scanner(System.in);

        number1 = input.nextDouble();
        number2 = input.nextDouble();

        System.out.println( number1+number2);
        System.out.println( number1-number2);
        System.out.println( number1*number2);

    }
}
```

**Output=**

**Input =100 2**

**Addition = 102.0**

**Subtraction = 98.0**

**Multiplication= 200.0**

**Que.3) create 2 variables of integer type and swap their values and display**

```
public class Main {  
  
    public static void main(String[] args)  
    {  
  
        int x = 10, y = 20;  
  
        System.out.println("Before Swap");  
        System.out.println( x);  
        System.out.println(y);  
  
        int temp = x;  
        x = y;  
        y = temp;  
  
        System.out.println("After swap");  
        System.out.println(x);  
        System.out.println(y);  
    }  
}
```

**output**

**Before Swap**

**10**

**20**

**After swap**

**20**

**10**

**Que.4) print a multiplication table of 5**

**5\*1=5**

**5\*2=10**

**.....**

**.....**

**5\*10=50**

```
public class Main
```

```
{
```

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

```
    int n=5;
```

```
    for(int i=1;i<=10;i++){
```

```
        System.out.println(n*i);
```

```
}  
}  
}
```

### **Output**

**5  
10  
15  
20  
25  
30  
35  
40  
45  
50**

**Que.5) 5)WAP to input 3 subject marks and find the total marks and average**

**display**

**excellent if marks>=80**

**Very good if marks>=70 and <=79**

**Good if marks>=50 and <=69**

**else display 'better luck next time'**

```
class Main{

    public static void main(String args[]){

        int arr[]={50,90,75};

        int n=3;

        int total_Marks=0;

        int avg=0;

        for(int i=0;i<n;i++){

            total_Marks= total_Marks+ arr[i];

            avg=total_Marks/n;

        }

        System.out.println(total_Marks);

        System.out.println(avg);

        for(int i=0;i<n;i++){

            if(arr[i]>80){

                System.out.println("Excellent"+ arr[i]);

            }

        }

    }

}
```

```
else if(arr[i]>=70 && arr[i] <=79){
    System.out.println("very good"+ arr[i]);
}

else if(arr[i]>=50 && arr[i]<=69){
    System.out.println("Good"+ arr[i]);
}

else{
    System.out.println("better luck next time");
}
}
```

**Output=**

**215**

**71**

**Good 50**

**Excellent 90**

**very good 75**

**Que. 6)create an integer array to store marks for 5 students , display the total marks**

```
class Main{

    public static void main(String args[]){

        int arr[]={10,20,30,40,50};
        int n=5;
        int total_Marks=0;

        for(int i=0;i<n;i++){

            total_Marks= total_Marks+ arr[i];

        }
        System.out.println(total_Marks);

    }

}
```

**Output=150**



**Que.7 create an integer array to store marks for 5 students and accept a number and find wheter the number is present in an array or not.**

```
class Main{

    public static void main(String args[]){

        int arr[]={11,12,13,14,15};

        int n=5;

        int key=13;

        for(int i=0;i<n;i++){

            if(key==arr[i]){

                System.out.println("present");

                break;

            }

            else{

                System.out.println(" Not present");

            }

        }

    }

}
```

**Output=**

**Not present**

**Not present**

**Present**

**Que. 8)write a program to generate odd and even numbers from 2 to 20 using any of the looping stmts**

```
class Main{

    public static void main(String args[]){

        for(int i=2;i<=20;i++){

            if(i%2==0){

                System.out.println("The No is Even"+" "+i);

            }

            else{

                System.out.println("The No is odd"+" "+i);

            }

        }

    }

}
```

**Output=**

**The No is Even 2**

**The No is odd 3**

**The No is Even 4**

**The No is odd 5**

**The No is Even 6**

**The No is odd 7**

**The No is Even 8**

**The No is odd 9**

**The No is Even 10**

**The No is odd 11**

**The No is Even 12**

**The No is odd 13**

**The No is Even 14**

**The No is odd 15**

**The No is Even 16**

**The No is odd 17**

**The No is Even 18**

**The No is odd 19**

**The No is Even 20**

**Que 9)write program to find the area and circumference of the circle with radius 5.**

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

```
public class Main

{

    public static void main(String[] args) {

        double Area,AreaOfCircum;
        int radius=5;

        Area=2*3.14*radius*radius;
        AreaOfCircum=3.14*radius*radius;

        System.out.println("The Area is" + " "+ Area);
        System.out.println("The Area is" + " "+ AreaOfCircum);

    }

}
```

**Output=**

**The Area of circle is 157.0**

**The Area of circumference is 78.5**

**Que.10 write a program to find the area, perimeter of a rectangle .**

```
import java.util.Scanner;

public class Main
{
    public static void main(String[] args) {
        int length,breadth,Area,perimeter;

        Scanner sc = new Scanner (System.in);

        length=sc.nextInt();
        breadth=sc.nextInt();

        Area=length*breadth;
        perimeter=2*Area;

        System.out.println("The Area is" +Area);
        System.out.println("The perimeter of rectangle is" +perimeter);

    }
}
```

**Output=**

**20 12**

**The Area is240**

**The perimeter of rectangle is480**

**Que 11)Write a program to accept 3 numbers and then display the biggest**

**public class Main**

**{**

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

**int num1=10,num2=20,num3=30;**

**if(num1>num2 && num1>num3){**

**System.out.println(num1);**

**}**

**else if(num2>num1 && num2>num3){**

**System.out.println(num2);**

**}**

**else{**

**System.out.println(num3);**

**}**

**}**

```
}
```

**Output=30**

**Que.12 write a program to find the factorial of 5 number.**

```
class Main{

    public static void main(String args[]){

        int i,fact=1;
        int number=5;

        for(i=1;i<=number;i++){

            fact=fact*i;
        }
        System.out.println(fact);
    }
}
```

**Output=120**

