Assignment

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Batch:-60R

Task 1:-Third Ranker

```
import java.util.Arrays;
import java.util.Scanner;
public class ThirdRanker {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner s=new Scanner(System.in);
		System.out.println("Enter marks of the students:");
		int s1=s.nextInt();
		int s2=s.nextInt();
		int s3=s.nextInt();
		int s4=s.nextInt();
		int r1=Integer.MIN_VALUE;
		int r2=Integer.MIN_VALUE;
		int r3=Integer.MIN_VALUE;
		int[] marks = {s1, s2, s3, s4};

	for (int m : marks) {
	   if (m > r1) {
	      r3 = r2;
	      r2 = r1;
	      r1 = m;
	   } else if (m > r2 && m != r1) {
	      r3 = r2;
	      r2 = m;
	   } else if (m > r3 && m != r2 && m != r1) {
	      r3 = m;
	   }
```

```
        }

        System.out.println("Marks of 3rd ranker: " + r3);
    }
}
```

o/p

```
Enter marks of the students:
67
89
99
76
Marks of 3rd ranker: 76
```

Task 2:-PrimeRange(1,100)

```
public class Primenumrange {
        public static void main(String[] args) {
                for(int num=2;num<=100;num++) {
                        int c=0;

                        for(int i=2;i<=num;i++) {
                                if(num%i==0) {
                                        c++;
                                }
                        }
                        if(c==1) {
            System.out.print(num + " ");
                        }

                }

        }
```

```
}
```

o/p

prime numbers(1,100):-2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

Task 3:-Palindrome

```
import java.util.Scanner;
public class Palindromenum {
	public static void main(String[] args) {
		 Scanner sc = new Scanner(System.in);
		System.out.println("Enter a number:");
		int num = sc.nextInt();
		int original = num;
		int rev = 0;
		while (num > 0) {
		   int digit = num % 10;
		   rev = rev * 10 + digit;
		   num = num / 10;
		}
		if (original == rev) {
		   System.out.println(original + " is a Palindrome number.");
		} else {
		   System.out.println(original + " is NOT a Palindrome number.");
		}
	    }

}
```

o/p:-

Enter a number:

12121

12121 is a Palindrome number.

Task 4:-

```
import java.util.Scanner;

public class DaysInWeek {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter day number :");
        int day = sc.nextInt();

        switch (day) {
            case 1: System.out.println("Sunday"); break;
            case 2: System.out.println("Monday"); break;
            case 3: System.out.println("Tuesday"); break;
            case 4: System.out.println("Wednesday"); break;
            case 5: System.out.println("Thursday"); break;
            case 6: System.out.println("Friday"); break;
            case 7: System.out.println("Saturday"); break;
            default: System.out.println("Invalid input! Please enter 1-7.");
        }
    }
}
```

o/p:-

```
Enter day number (1-7):
5
Thursday
```

Task 5:-Square Pattern

```
public class Squarepattern {
	public static void main(String[] args) {
		int n=5;
		for(int i=1;i<=n;i++) {
			for(int j=1;j<=n;j++) {
				System.out.print("* ");
			}
			System.out.println();
		}

	}

}
```

o/p:-

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

Task 6:-Triangle Pattern with number

```
public class Trianglepatternnumbers {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=5;
		int sum=1;
		for(int i=1;i<=n;i++) {
			for(int j=1;j<=i;j++) {
				System.out.print(sum+" ");
```

```
                    sum++;
                }
                System.out.println();
            }

        }

}
```

o/p:-

1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

Task 7:-

```
public class Upperleftrighttrianglestarpattern {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=5;
        for (int i = 1; i <= n; i++) {

    for (int j = i; j < n; j++) {
       System.out.print("- ");
    }
    for (int j = 1; j <= (2 * i); j++) {
       System.out.print("* ");
    }
    for (int j = i; j < n; j++) {
       System.out.print("- ");
```

```
        }
        System.out.println();
      }
        }
}
```

o/p:-

```
- - - - * * - - - -
- - - * * * * - - -
- - * * * * * * - -
- * * * * * * * * -
* * * * * * * * * *
```

Task 8:-

```
public class Upperleftrighttrianglestarpattern {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
                int n=5;
                for (int i = 1; i <= n; i++) {

        for (int j = i; j < n; j++) {
           System.out.print("- ");
        }
        for (int j = 1; j <= (2 * i); j++) {
           System.out.print("* ");
        }
        for (int j = i; j < n; j++) {
           System.out.print("- - ");
        }
        for (int j = 1; j <= (2 * i); j++) {
           System.out.print("* ");
        }
        for (int j = i; j < n; j++) {
```

```
            System.out.print("- ");
        }
        System.out.println();
    }


        }
}
```

o/p;-

```
- - - - * * - - - - - - - - * * - - - -
- - - * * * * - - - - - - * * * * - - -
- - * * * * * * - - - - * * * * * * - -
- * * * * * * * * - - * * * * * * * * -
* * * * * * * * * * * * * * * * * * * *
```