

Assignment – 3

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❖ If

String a = "ashok";

int b =10, c=20, d=30;

What is the the output of the following?

- a) System.out.println(a+b+c+d);
- b) System.out.println(b+c+d+a);
- c) System.out.println(b+c+a+d);
- d) System.out.println(b+a+c+d);

OUTPUTS

- a) ashok102030
- b) 60ashok
- c) 30ashok30
- d) 10ashok2030

❖ What is the output of the following?

- a) System.out.println(10 < 10.5);
- b) System.out.println('a' > 100.5);
- c) System.out.println(10 == 20);
- d) System.out.println('a' == 'b');
- e) System.out.println('b' > 'a');
- f) System.out.println(true > false);
- g) System.out.println(10 > 20 > 30);
- h) System.out.println('a' == 97.0);
- i) System.out.println(false == false);

OUTPUTS

- a) true
- b) true
- c) false
- d) false
- e) true
- f) compile time error, boolean true and false bad operand types for binary operator '>'.
- g) compile time error, Boolean and int are bad operand types for binary operator '>'
- h) true
- i) true

Assignment – 3

Abhishek Shrivastava

❖ What are the allowed type in case in switch?

- a) int
- b) byte
- c) short
- d) long
- e) float
- f) String
- g) double
- h) enum

ALLOWED TYPES

a)int b)byte c)short f) String h)enum

❖ What will be the output of following program for

- a) x=0
- b) x=1
- c) x=2
- d) x=3

```
public class Test{  
  
    public static void main(String[] args)  
  
    {  
  
        int x= 0;  
  
        switch(x)  
  
        {  
  
            default:  
  
                System.out.println("default");  
  
            case 0:  
  
                System.out.println("zero");  
  
                break;  
  
            case 1:  
  
                System.out.println("one");
```

Assignment – 3

Abhishek Shrivastava

case 2:

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

OUTPUTS

- a) zero
- b) one
two
- c) two
- d) default
zero

- ❖ Write a program in java to find the prime numbers till 50. (Make use of **continue/break**)

```
package primenumber;  
  
public class PrimeNumber {  
    public static void main(String[] args) {  
        int i,j;  
        boolean prime=true;  
        for(i=2;i<=50;i++)  
        {  
            prime=true;  
            for(j=2;j<i;j++)  
            {  
                if(i%j==0)  
                {  
                    prime=false;  
                    break;  
                }  
            }  
            if (prime==true)  
            {  
                System.out.println(i+"is prime");  
            }  
        }  
    }  
}
```

Assignment – 3

Abhishek Shrivastava

- ❖ **Given the age of person, write a program in java to show if person is eligible to vote. Minimum age to vote = 18(if/else)**

```
package voteprog;
import java.util.Scanner;
public class VoteProg {
    public static void main(String[] args) {
        int age;
        Scanner sn=new Scanner(System.in);
        System.out.print("Please enter your age: ");
        age = sn.nextInt();
        if(age<18)
        {
            System.out.println("Sorry you need to be atleast 18 years of age to vote.");
        }
        else
        {
            System.out.println("You are eligible to vote!");
        }
    }
}
```

- ❖ **Make a grading system, where**
Marks>90 === Grade A+
Marks 70-90 ===Grade A
Marks 60-70 === Grade B
Marks 35-60 === Grade C
Marks <35 ===== Grade D

```
package markingsystem;
import java.util.Scanner;
public class MarkingSystem {

    public static void main(String[] args) {
        int marks;
        String grade;
        Scanner sn=new Scanner(System.in);
```

Assignment – 3

Abhishek Shrivastava

```
System.out.print("Please enter your marks: ");
marks = sn.nextInt();
if(marks>90)
{
    grade="A+";
    System.out.println("Grade: "+grade);
}
else if(marks>=70)
{
    grade="A";
    System.out.println("Grade: "+grade);
}
else if(marks>=60)
{
    grade="B";
    System.out.println("Grade: "+grade);
}
else if (marks>=35)
{
    grade="C";
    System.out.println("Grade: "+grade);
}
else
{
    grade="D";
    System.out.println("Grade: "+grade);
}
}
```