

CL/GS 3...

T:-1,2,3,4

F:-1,2,3,4

else

}

5....

6....

**ERROR** 

Case 3

T:-1,2,3,4

F:-3,4

if(cond);

1..

3...

CL/GS 2...

CL/GS

T:-1,5,6

F:-2,3,4,5,6

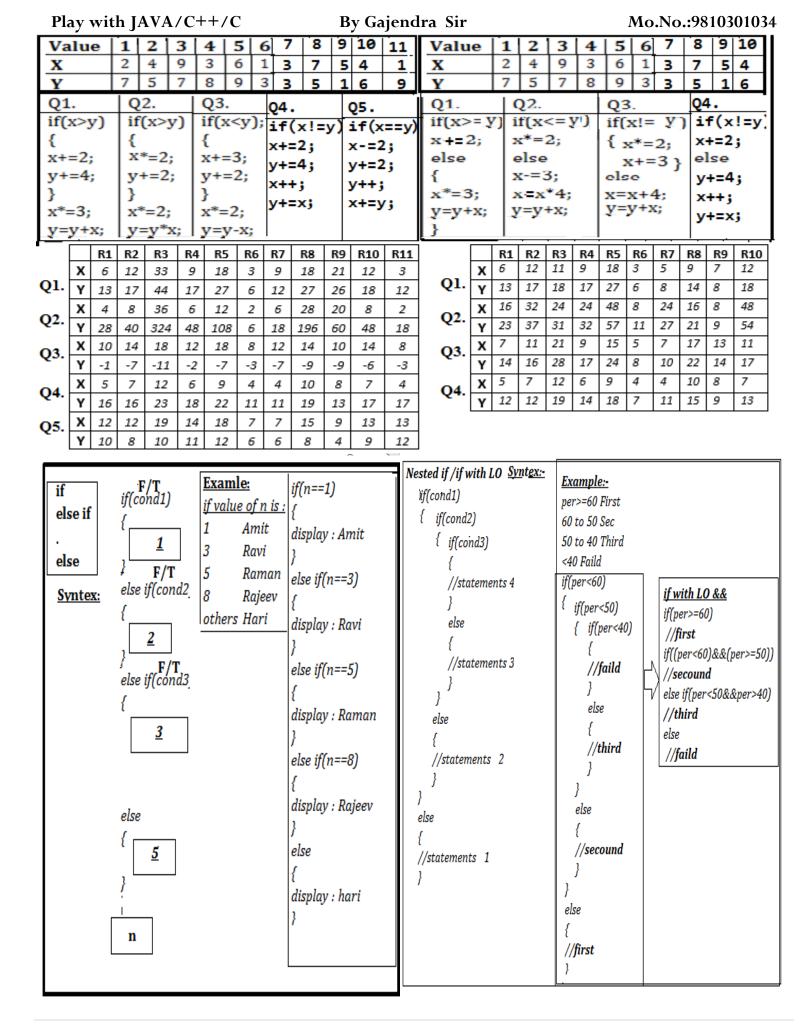
With if 1.

else

5....

6.

With else



```
if with LO(&&,||):-
                              Syntex:-
&& for range like
                              if((cond1)LO(cond2)LO(cond3))
    1 to 7 same result
                              //statements
   9 to 20
                                                     switch(n)
                                                                           if value of n is:
// for value like
                              //statements
        1.4.7 same result
                                                                           Input Output
                                                     case 1: Display A break;
                                                                           1=
Example || operator:-
                                                     case 2: Display B
                                                                           2=
                   if((n==1)||(n==4)||(n==7))
Q1 if n is
                                                                           3=
                    print:-Amit
                                                     case 3: Display C break;
1,4,7
         Amit
                    else\ if((n==5)||(n==2))
                                                                           4=
                                                     case 4: Display D break;
5.2
          Ravi
                    print:-Ravi
                                                                           5=
           OM
others
                                                     case 5: Display E
                    else
                                                                           6=
                                                     case 6: Display F break;
                   print:-OM
                                                                           7=
                                                     case 7: Display G break;
Example && operator:-
                                                                           8=
                                                     case 8: Display H
                    if((n>=1)&&(n<=7))
 Q2 if n is
                                                                           9=
                    print:-Amit
                                                     case 9: Display I break;
 1 to 7 Amit
                                                                           10=
                    else if((n>7)&&(n<=15))
 8 to 15 Ravi
                                                     default : Display J
                    print:-Ravi
                                                                           12=
 others OM
                    else
                                                                           13=
                    print:-0M
```

```
Examle:
                                                                                    Nested Switch Case:
Switch Case:
                                                              if value of n is :
                                                                                    switch(VN)
         switch(VN)
                                                                     Amit
                                                                     Ravi
                                                                                    case Value:
 like if case value 1:
                                                                     Raman
                                                                                           switch(VN)
                //Statements
                                                                     Rajeev
                break:
                                                             others Hari
                                                                                           case Value: //Statements
         case value 1:
                                 if(n==1)
                                                                                            break:
 else
                //Statements
                                                      switch(n)
                                                                                            case Value://Statements
 if
                break;
                                  display: Amit
         case value 1:
                                                      case 1:
                                                                                            case Value://Statements
                //Statements
                                                              display: Amit
                                  else if(n==3)
                                                                                            break;
                break;
                                                              break;
                                                      case 3:
                                  display: Ravi
                                                              display: Ravi
                                                                                            default://Statements
         default: //Statements
 else
                                                              break;
                                  else if(n==5)
                break;
                                                      case 5:
                                                                                           break;
                                                              display: Raman
                                  display : Raman
                                                                                    case Value://Statements
                                                              break;
                                                                                           break:
                                                      case 8:
                                  else if(n==8)
                                                                                    case Value://Statements
                                                              display: Rajeev
                                                                                           break;
                                                              break;
                                  display : Rajeev
                                                                                    default://Statements
                                                      default:
                                                              display: hari
                                  else
                                                              break;
                                  display : hari
```

#### Comparison between Switch & If-Else

Condition (If, Switch and Nested	)
----------------------------------	---

	<u>Condition (If</u>
<i>1</i> .	WAP to find no is –ve or +ve
<i>2</i> .	WAP to find no is even and odd
<i>3</i> .	WAP to find elder person in 2 persons
<i>4</i> .	WAP to find given year is leap year or not
<i>5</i> .	WAP to display age is grater then 18 or not
<i>6</i> .	WAP to display allow to vote or note
<i>7</i> .	WAP to find Person is senior citizen or not, input age
<i>8</i> .	WAP to find which no is grater no in 2 numbers
9.	WAP to find which no is lowest no in 2 numbers

- 10. WAP to find which no is grater no in 3 numbers 11. WAP to find which no is grater no in 4 numbers
- 12. WAP to find which no is lowest no in 3 numbers
- 13. WAP to find which no is lowest no in 4 numbers
- 14. WAP to display Day by given Number
- 15. WAP to display Month by given Number
- 16. WAP to display Digit in text (0 to 9)
- 17. WAP to Check given character is vowel or not.
- 18. WAP to calculate the fare of the following:

Ma	arks obtaine	d in diff. subject	Str	eam
21.	WAP to A	ssign a stream to stud	lent according:	
	Age	Journey	rate iii Ks.	

_	t thirth I ( Chic	/	
		<50 Km	10
	<8	50 to 100 Km	15
		Above 100Km	20
		<50 Km	20
	8 to 60	50 to 100 Km	30
		Above 100Km	40
	Ahovo	<50 Km	15
	Above 60	50 to 100 Km	20
		Above 100Km	25

- 19. Write a menu drivin program to calculate:
  - a. Area of circle  $A = \pi r^2$
  - b, Area of squire [A=a\*a]
  - c. Area of rectangle [A=1\*b]
- Write a menu drivin program to calculate:
  - Volume of cube [V=s<sup>3</sup>]
  - Volume of sphere  $V = \pi r^3$ ]
  - Volume of cuboid[V=1\*b\*h]
- Write a menu drivin program to calculate:
  - +' for Add two numbers.
  - for subtract two numbers
  - \*' for two numbers

Commerce 23. WAP to print the **Discount** in Rupees for a salesman. The Discount is based on the following conditions

Pure Science

Bio. Science

Sales	Dis %
< Rs. 5000	5%
Rs. 5000 to Rs. 10000	(8%
Above Rs. 10000	10%

Eng., and Science  $\geq 80\%$ , Maths  $\geq 60\%$ 

Eng., Maths and Science >= 80%

Eng., Maths and Science >=60%

[Dis=Sales\*<Dis\_percentage >)/100] [Total Amount=Sales-Dis]

24. WAP to print the Income, Tax & Surcharge of Employ. The Tax and Surcharge based on the following conditions

Income	Tax % Surcharge
< Rs. 15000	15%
Rs. 15001 to Rs. 20000	18%//// 11%
Above Rs. 21000	20%

[Total Income = Income - Tax-Surcharge][Tax=Income < Tax\_percentage >)/100]display all information like Income,

Tax & Surcharge.

25. WAP to print the Division: Division Per < 40 Failed 40 to 50 Third) \ 50 to 60 Second >=60First

**26.** WAP to get input distance and print fare for the passenger according to:

DISTANCE FARE (in Rs.) Upto 20km 10 P/K Next 20km 7 P/K

Above 6 P/K

27. WAP to for library charges a fine for books returned late. Following are the fines:

First five days 40 paisa per day. 65 paisa per day. Six to ten day 80 paisa per day Above ten days

28. WAP to for Electric Bill charges according to charges. Following are the fines:

First 100 Units 1 Rs per day. Next200 Units 2 Rs per day. Above300 Units 4 Rs per day.

## C programming IF ELSE

Q1. Detect errors if any in each of the following statement and rewrite correctly.

- a. if(2x+5=10 & x<0)
- b. if(!a>a+b);
- c. if a>0&&a<b
- d. if a < 0 | |a > -10|
- e. if(b)a++;a\*=2:else a--;

Q2. Give the output of the following code fragment: when i) opn = 'b' ii) opn = 'x' iii) opn = 'a' switch(opn) {

```
case 'a': printf("Platform Independent");
        break:
 case 'b': printf ("Object Oriented");
 case 'c': printf ("Robust and Secure");
        break:
 default: printf ("Wrong Input");
Q4. Differentiate between using examples :
```

- 1. if..else and if ..else if...else

  - 2. break and continue
  - 3. if and switch

iv. int y=res>=500?12\*2:22+3;

int res=x > = 110?20\*2:30+2

#### Paper Set1 iii. int k=x<=100?101:11;**1.** what is difference between these cods

```
if(x=1) x+=1;
                      if(x=1)
                                       x+=1:
if(x=2) x+=2;
                       else if(x=2)
                                       x+=2:
if(x=4) x+=4;
                       else if(x=4)
                                       x+=4;
if(x=5) x+=5;
                       else if(x=5)
                                       x+=5;
else
         x+=3;
                       else
                                       x+=3;
```

- **2.** convert the given statement into if statement
- i. int ans =res>365?500/10:300/10
- ii. comm=amount>=200?amount\*.40:amount\*.20

### Convert the following code into switch case

```
a. if(x=='a')m^*=2;
   if(x=='c')m/=2;
   if(x=='d')m+=3
```

switch(x)

**b.** if (ch = = 'a')printf("a"; else if(ch= =  $\langle z' | ch \rangle$ printf ("z"); else printf ("invalid");

c. if(code= $\pm$ 'A') printf ("Account"); else if (code=='C' | | code == 'G')

```
printf ("Grade IV");
             else
             printf ( "Grade I");
          d. if(inpu==5){
             col=col+1; printf ("%d",col);}
             else if(inpu==10){
             col=col+2; printf ("%d",col);}
             else printf ("%d,%d",col,input);
e. if (a==1)\{a=a*a; printf("%d",a)\}
else if(a==3||a==4||a==5){a=a*3; printf("%d",a);}
else if(a==6||a==7||a==8){a=a*4; printf("%d",a);}
else printf("%d",a);
```

# Convert the following code into "if"

```
case 0: x+=2; printf("%d",x);break;
  case 2: x-=3; printf("%d",x);break;
  case 3: x^*=1; printf("%d",x);break;
  case 6: x/=6; printf("%d",x);break;
  default: x++; printf("%d",x);break;
  b. switch(m)
case 'a': printf("MY C++ a");break;
case 'b': printf(MY C++ b");break;
```

```
case 'c': printf("MY C++ c");break;
 case 'd': printf("MY C++ d");break;
 default: printf("MY C++ e");break;
   c. char choice='c';
switch(m)
case 'a': printf("MY C++ a");break;
 case 'b': printf("MY C++ b");
 case 'c': printf("MY C++ c");
 case 'd': printf("MY C++ d");break;
 default: printf("MY C++ e");break;
```

```
Play with JAVA/C++/C
                                            By Gajendra Sir
                                                                                      Mo.No.:9810301034
                                                                 case 3: x^*=1; printf("%d",x);
                                                                 case 6: x/=6; printf("%d",x);break;
          d. switch(m)
                                                                 default: x++; printf("%d",x);break;
       case 0: x+=2; printf("%d",x);break;
       case 2: x-=3; printf("%d",x);
                          What will the output of the following program
                                                                 printf("%d, %d",b,c);
          e. int a=10,b=20;
      if((a < b)||(a > 5) > 10)
                                                                    k. int a=500,b,c;
      printf("%d",a);
                                                                 if(a > = 400)
                                                                 b=300;
      else
      printf("%d",b);
                                                                 c = 200:
                                                                printf("%d %d", b,c);
          f. int x=15, y=10;
                                                                    1. int x=10,y=22;
      if(x>5)
                                                                if(x==v)
                                                                printf("%d\n%d", x++,y++);
      if (y>5)
      printf("%d",y);
                                                                else
                                                                printf("%d\n%d", --y,--x);
              else
                                                                    m. int x=12,y=20;
              printf("%d",x);
                                                                if(x==y)(x==y)
                                                                printf("%d\n%d", ++x,++y);
          \mathbf{g}. int p=-1;
              if(p>0)
                                                                else
                                                                printf("%d\n%d", --y,--x);
              printf("That is Negative");
              else printf("OK P=%d",p);
                                                                    n: int i=4,z=12;
          h. int x=5;
                                                                if(i=5||z>50)
                                                                printf("\n Student 1");
              if(x<0)
              printf( "Neg. Value");
                                                                printf("\n Student 2");
                                                                int_{i=4,z=12;}
              else
              printf("Pos. Value %d",x);
                                                                 if(i = =5||z>50)
                                                                 printf("\n Student 1");
          \mathbf{i}. int i=2;
                                                                 printf("\n Student 2");
              printf("%d",i); i+=2;
              if(i<51) printf("\n Thanks"):
                                                             4. int i=4,z=12;
                                                                 if(i = 5||z < 50)
          i. int a=300,b=100,c=9;
       if(a > = 400)
                                                                 printf("\n Student 1");
                                                                 printf("\n Student 2");
       b = 300;
       c=200;
                     Rewrite the following code using ternary operator.
          a. intage =20;
                                                                        double amt=sales*10.0/100.0;
              boolean res;
                                                                    d. if(marks>200)char res= 'p';
              if(age > = 18) res = 1;
                                                                                    char res= 'f';
                                                                    e. if(c > 100) c += 2;r = c;
              else
                         res≂0:
          b. if (x>5) int y=x+2;
                                                                        else
                                                                                c*=3:r=c:
              else int y=x-2;
                                                                    f. if(c = 'a') res= 'v';
          c. if (sales>25000)
                                                                        else
                                                                                  res= 'n';
              double amt=sales*20.0/100.0;
Q9 Find value of x after execution this program: if x is: 4,6,9,12,34,51,11,10,15,21
```

if(x>=5);	if(x>:5)	if(x<=10)	if(x!=15)	if(x>=5)	if(x<=10)	if(x!=15)
x+=2;	{ x+=2;	x/=2;	x*=2;	x+=2;	x*=2;	{
x*=3;	x*=3;}	x-=3;	x+=3;	else	else	x*=2;
x=x-4;	x=x-4;	x=x*4;	x=x+4;	{	x-=3;	x+=3
				x*=3;	$x=x^{*}4;$	};
		_		x=x-4;}		x=x+4;

#### C++ Programming Question Set 1

- Q1. Detect errors if any in each of the following statement and rewrite correctly.
  - f. if(2x+5=10 & x<0)
  - g. if(!a>a+b):
  - h. if a>0&&a<b

#### Q2. Write a program to find:

- k. Grater no in 3 numbers
- l. Smaller no in 3 numbers

- m. Second Grater no in 3 numbers
- n. Second Smaller no in 3 numbers
- Q3. Give the output of the following code fragment: when i) opn = 'x' ii) opn = 'x' iii) opn = 'a'

```
switch(opn)
{
   case 'a': cout<<"Platform Independent";
        break;
   case 'b': cout<< "Object Oriented";</pre>
```

case 'c': cout<< "Robust and Secure"; break;

default: cout << "Wrong Input";

i. if a<0||a>-10)

i. if(b)a++;a\*=2:

else a--:

#### **Question Set2**

#### 5. what is difference between these cods

```
if(x==1) x+=1;
if(x==2) x+=2;
if(x==4) x+=4;
if(x==5) x+=5;
else x+=3;
```

```
if(x==1) x+=1;
else if(x==2) x+=2;
else if(x==4) x+=4;
else if(x==5) x+=5;
else x+=3;
```

- x. int res=x > = 110?20\*2:30+2;
- 7. convert the following code into switch case

```
a. if(x=='a')m*=2;
```

if(x=='c')m/=2;

if(x=='d')m+=3;

**b.** if (ch = = 'a')

cout<< "a";

else if(ch== 'z')(ch== 'z')

cout<< "z";

else

cout<< "invalid";

**c.** if(code== 'A')

cout << "Account";

else if (code=='C')|code==='G')

#### 8. convert the following code into "if"

a. switch(m)

{case 0: x+=2; cout<< "x="<<x;break;

case 2: x-=3; cout<< "x="<<x;break;

case 3:  $x^*=1$ ;

case 6: x/=6; cout<< "x="<<x;break;

default: x++; cout<< "x="<<x;break;}</pre>

b.

switch(m)

{case 'a':

case 'b': cout<<"MY C++ b";break;

case 'c':

case 'd': cout<< "MY C++ c, d";break;

default: cout<< "MY C++ e";break;}</pre>

```
6. convert the given statement into if statement
```

vi.int ans  $\neq$  res>365?500/10:300/10

vii. comm=amount>=200?amount\*.40:amoun

t\*.20

viii. int k=x<=100?101:11;

ix.int y=res>=500?12\*2:22+3;

```
cout<< "Grade IV";
```

else

cout<< "Grade I";

**d.** if(inpu==5){

cal=cal+1; cout<col}

else if(inpu==10){

col=col+2; cout<<col;}

elsecout<col<<inpu;

**e.** if  $(a==1)\{a=a*a; cout << a;\}$ 

else if(a==3||a==4||a==5){a=a\*3;cout<<a;}

else if(a==6||a==7||a==8){a=a\*4;cout<<a;}

else cout<<a;

c.

switch(m)

{case 'a': cout<< "MY C++ a";break;

case 'b':

case 'c':

case 'd': cout<< "MY C++ b, c,d";break;</pre>

default: cout<< "MY C++ e";break;}</pre>

d.

switch(m){

case 0: x+=2; cout<< "x="<<x;break;

case 2: x-=3;

case 3:  $x^*=1$ ; cout << "x=" << x;

case 6: x/=6; cout<< "x="<<x;break;

#### 9. What will the output of the following program

```
a. int a=10,b=20;
   if((a<b)||(a>5)>10)
   cout<<a;
   else
   cout<<b;</pre>
```

- c. int p=-1;
  if(P>0) cout<< "That is Negative";
  else cout<< "OK P="<<p<<endl;</pre>
- d. int x=5;
   if(x<0)
   cout<< "Neg. Value";
   cin>>x;
   else
- cout<< "Pos. Value";<<x<end; e. int i=2;
  - cout<<i; i+=2; if(i<51) cout<<'\n Thanks'':
- f. int a=300,b=100,c=9; if(a>=400) b=300; c=200;

```
g. int a=500,b,c;

if(a>=400)

b=300;

c=200;

cout<<"\n"<< b<<c;
```

cout<<"\n"<< b<<c;

}

```
11.int i=4,z=12;

if(i==5||z<50)

cout<<"\n Student 1";

cout<<"\n Student 2";
```

# 12. Rewrite the following code using ternary operator.

```
    a. int age = 20;
    boolean res;
    if(age>=18) res=1;
    else res=0;
    if(x>5) int y=x+2;
    else int y=x-2;
```

**c.** if (sales>25000) double amt=sales\*20.0/100.0; else

- double amt=sales\*10.0/100.0;
- **d.** if(marks>200)char res= 'p'; else char res= 'f';
- **e.** if(c>100) c+=2;r=c; else c\*=3;r=c;
- **f.** if(c== 'a') res= 'v'; else res= 'n';

## Q9 Find value of x after execution this program: if x is: 4,6,9,12,34,51,11,10,15,21

if(x>=5);	if(x<=10)	if(x!=15)	if(x>=5)	if(x<=10);	if(x!=15)
x+=2;	x/=2;	x*=2;	x+=2;	x*=2;	{` ´
x*=3;	x-=3;	x+=3;	else	else	x*=2;
x=x-4;	x=x*4;	x=x+4;	{	x-=3;	x+=3
			x*=3;	$x=x^{*}4;$	<b>}</b> ;
			x=x-4;}		x=x+4;

# JAVA Programming Paper Set1"if else" Assignment Paper

```
1. what is difference between these cods
    if(x==1) x+=1;
                            if(x==1)
                                             x+=1;
    if(x==2) x+=2;
                            else if(x==2)
                                             x+=2;
    if(x==4) x+=4;
                            else if(x==4)
                                              x+=4;
    if(x==5) x+=5;
                            else if(x==5)
                                              x+=5;
    else
              x+=3;
                            else
                                             x+=3;
 2. convert the given statement into if statement
  i. int ans = res > 365?500/10:300/10
  ii. comm=amount>=200?amount*.40:amount*.20
  iii. int k=x<=100?101:11;
  iv. int y=res>=500?12*2:22+3;
  v. int res=x > =110?20*2:30+2;
  vi. char res=x>32? 'A':'C':
 3. convert the following code into switch case
    char x; int m=0;
if(x=='a')m*=2;
if(x=='c')m/=2;
if(x=='d')m+=3;
else m=7;
b. char ch= 'a'
if(ch = = 'a')
System.out.println(" a");
else if(ch = 'z' || ch == 'Z')
System.out.println(" z, Z");
else
System.out.println("invalid");
        if(code=='A')
     System.out.println ("Grad I");
     else if (code== 'B' \parallelcode == 'C')
     System.out.println("Grade II");
     else
     System.out.println("Grade III");
d.
        if(code = 'A' | code = 'a')
     System.out.println ("Grad I");
 else if (code= 'B' ||code= 'C'|| code=
                                            'b' code== 'c')
    System.out.println("Grade H");
     else
     System.out.println("Grade III");
e. if(inpu=\frac{5}{1})
     cal=cal+1; System.out, println(col);}
     else if(inpu=10){
     col=col+2; System.out.println(col);}
     elseSystem.out.println(col+","+inpu);;
f.
     if (a==1){a=a*a; System.out.println(a);}
```

else if(a==3||a==4||a==5){a=a\*3;System.out.println(a);}

else if(a==6||a==7||a==8){a=a\*4;System.out.println(a);}

```
case 0: x+=2; System.out.println("x="+x);break;
    case 2: x-=3; System.out.println("x="+x);break;
    case 3:
    case 6: x/=6; System.out.println(" x="+x);break;
    default: x++; System.out.println(" x="+x);break;}
             char choice='c';
      b.
    switch(m)
     case 'a': System.out.println(" JAVA a");break;
     case 'b': System.out.println(" JAVA b");break;
     case 'c':
     case 'd': System.out.println(" JAVA C, d");break;
     default: System.out.println("JAVA e");break;
          char choice='c
    switch(m)
     case 'a':
              System.out.println(" JAVA a");break;
     case 'b'.
     case 'c':
     case 'd': System.out.println(" JAVA d");break;
     default: System.out.println(" JAVA e");break;
        d. convert the following code into "if"
    intm,x=0;
    switch(m)
   case 0:
    case 2:
    case 3: x*=1;System.out.println(" x="+x);break;
    case 6: x/=3; System.out.println(" x="+x);break;
    default: x++; System.out.println(" x="+x);break;}
5. what will the output of the following program
a. int a=10,b=20;
if((a < b) || (a > 5) > 10)
System.out.println(a);
else
System.out.println(b);
b. int x=15,y=10;
if(x>5)
if (y>5)
System.out.println("y="+y);
}
else
System.out.println("x="+x);
c. int p=6:
    if(P>0) System.out.println("That is Negative");
```

a. switch(m)

else System.out.println(a);

**4.** convert the following code into "if"

elseSystem.out.println(" "OK P="+P);

**d.** x=3;

if(x<0)

System.out.println("Neg. Value");

System.out.println("Pos. Value");

 $\mathbf{e}$ . int i=2;

System.out.println(i+=2);

if(i<51) System.out.println("\n Thanks");

**f.** int a=300,b=100,c=100;

if(a > = 400)

b=300;

c=200;

System.out.println("Res:"+ b+ ","+c);

**g.** int a=500,b,c=300;

if(a > = 400)

b=300;

c=200;

System.out.println("Res: "+ b+ ","+c);

**h.** int a=10,b=20;

if(a==b) System.out.println("Res:"+ a+","+b);

else System.out.println("Res:"+ b+","+a);

i. int x=10,y=20;

if(x==y||x!=y)

System.out.println("Res:"+ x+ ","+y);

System.out.println("Res:"+ y+ ","+x);

if(x>:5)

**j.** int i=4,z=12;

if(x>=5);

Q9 Find value of x after execution this program:

if x is: 4,6,9,12,34,51,11,10,15,21

	x*=3; x=x-4;	x*=3;} x=x-4;	x-=3; x=x*4;	x+=3; x=x+4;	
•					

 $if(x \le 10)$ 

if(i=5||z>50)System.out.println("\n Student 1");

System.out.println("\n Student 2");

**6.** int i=4,z=12;

if(i = =5||z>50)

System.out.println("\n Student 1");

System.out.println("\n Student 2");

7. int i=4,z=12;

if(i = =5||z < 50)

System.out.println("\n Student 1");

System.out.println("\n Student 2");

**8.** rewrite the following code using ternary operator.

**a.** int age =20;

boolean res;

if(age>=18) res=true;

res=false;

**b.** if(x>5) int y=x+2;

else int y=x-2;

**c.** (sales>25000)

double amt=sales\*20.0/100.0

if(x>=5)

x+=2;

x\*=3;

x=x-4;

else

doubleamt=sales\*10.0/100.0;

if(marks>200)char res= 'p';

 $if(x \le 10)$ 

 $x^*=2$ ;

else

x-=3:

x=x\*4:

if(x!=15)

 $x^*=2$ :

x + = 3

x=x+4:

};

char res='f':

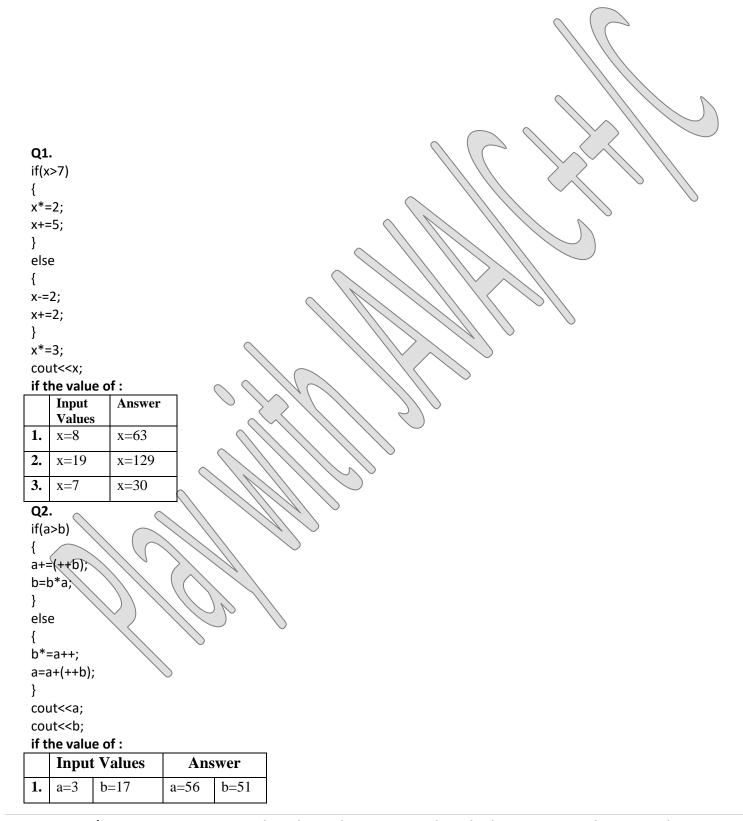
if(c>100) c+=2;r=

if(x!=15)

 $x^*=2$ ;

	R1	R2	R3	R4	R5	R6	<b>R7</b>	R8	R9	R10	R11
X	6	12	33	9	18	3	9	18	21	12	3
Y	13	17	44	17	27	6	12	27	26	18	12
X	4	8	36	6	12	2	6	28	20	8	2
Y	28	40	324	48	108	6	18	196	60	48	18
X	10	14	18	12	18	8	12	14	10	14	8
Y	-1	-7	-11	-2	-7	-3	-7	-9	-9	-6	-3
X	5	7	12	6	9	4	4	10	8	7	4
Y	16	16	23	18	22	11	11	19	13	17	17
X	12	12	19	14	18	7	7	15	9	13	13
Y	10	8	10	11	12	6	6	8	4	9	1/2

	R1	R2	R3	R4	R5	<b>R6</b>	<b>R7</b>	R8	R9	R10
X	6	12	11	9	18	3	5	9	7	12
Y	13	17	18	17	27	6	8	14	8	18
X	16	32	24	24	48	8	24	16	8	48
Y	23	37	31	32	57	M	2 <del>7</del>	21	9	54
X	7	H	21	9	15	5	7	12/	13	11
Y	14	16	28	17	24	8//	10	22	14	17
X	5	1	12	6	9		4	10	8	7
Y	12	12	19	14	18	$\mathcal{F}_{\mathcal{F}}$	11	13	9	13



Play with JAVA

By Gajendra Sir

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<u> </u>	* ** 1 (11	J <sup>1</sup> 1111		
2.	a=15	b=6	a=22	b=154
3.	a=17	b=9	a=27	b=270
4.	a=27	b=19	a=47	b=940
5.	a=18	b=18	a=344	b=324

