

Chapter 3 Question Bank

1. Write the value of t after the execution of the following code :

```
int t;  
int s;  
s=6;  
t = (8 * s++) % 7;
```
2. Write the value of variable 'c' after execution of the following code :

```
int d;  
int c;  
d=7;  
c = (5*++d)%3;
```
3. How many times will the following WHILE loop execute ?

```
int y = 7, sum = 0;  
while (y<= 15)  
{  
    sum = sum + y;  
    y = y+2;  
}
```
4. Rewrite the following program code using IF ELSE IF instead of SWITCH statement :

```
String tour;  
int cl = Integer.parseInt(jTextField1.getText());  
switch (cl)  
{  
    case 8: tour = "\n You are going to Camp Ramgarh";  
    break;  
    case 9: tour = "\n You are going to Manali, Rohtang  
    Pass"; break;  
    case 10: tour = "\n You are going to Chail";  
    break;  
    default: tour = " No School tour for you this time";  
}
```
5. Write the value of z after execution of following code :

```
int j;  
int z;  
j=4;  
z = (4*++j)%3;
```
6. Write the value of sum1 after execution of the following WHILE loop :

```
int i = 1, sum1 = 0;  
while (i<10)  
{ sum1 =sum1+ i;  
  i =i+2;  
}
```
7. Rewrite the following program code using if else if statement

```
String remarks;  
int num = Integer.parseInt(jTextField1.getText());  
switch (num)  
{  
    case 0: remarks = "You have not won any points.";  
    break;  
    case 1: remarks = " You have won one point";  
    break;
```

```

case 2: remarks = " You have won two points";
break;
default: remarks = " All the best";
}

```

8. What will be the values of variables `agg` and `agg1` after the execution of the following loops?

<pre> Loop 1 int a=9,agg=9; while(a>10) { agg+=a; a-=2; } </pre>	<pre> Loop 2 int b=9,agg1=0; do { agg1+=b; b-=2; } while(b>10); </pre>
---	---

9. Rewrite the following Java code using a Switch Case statement :
- ```

int option=Integer.parseInt(jTextField1.getText());
if (option==1)
jTextField2.setText("Regular employee");
else if (option==2)
jTextField2.setText("On Probation");
else if (option==3)
jTextField2.setText("Visiting faculty");
else if (option==4)
jTextField2.setText("On Contract");
else
jTextField2.setText("Invalid option!");

```
10. Rewrite the following program code using a Switch statement.
- ```

if (code ==1)
Day = "Monday" ;
else if (code == 2)
Day = "Tuesday" ;
else if ( code ==3)
Day = "Wednesday" ;
else if ( code == 4)
Day = "Thursday" ;
else
Day = "No Match" ;

```
11. Write Java code to assign the value 70 to variable `y`. Then decrease the value of `y` by 5 and store it in variable `z`.
12. What will be the content of the `jTextArea1` after executing the following code :
- ```

int n = 89;
jTextArea1.setText(Integer.toString(++n));

```
13. What will be displayed in `jTextArea1` after the execution of the following code
- ```

int G=1;
do
{
jTextArea1.setText(Integer.toString(G++));
G=G+1;
}while(G<=5);

```
14. What will be displayed in `jTextArea1` after the execution of the following loop? 2

- ```

for (int l=5, l<=25; l+=5)
jTextArea1. setText (jTextArea1 . getText()+" "+Integer.toString(2*I)) ;

```
15. What will be displayed In jTextArea1 after executing the following statement:  
jTextArea1.setText("Live\nIn Peace\t and harmony") ;
16. Write the value of variable 'c' after execution of the following code:
- ```

int d;
int c;
d=7;
c = (5*++d)%3;

```
17. Is a string containing a single character same as a char?
18. In a SWITCH statement, what is the purpose of 'default' section?
19. Distinguish between '/' and '%' operators .
20. "The variable/expression in the switch statement should either evaluate to an integer value Or String value." State True or False
21. Observe the following code carefully and find which statement will never get executed in the code?
- ```

int t=1; //Statement 1
do //Statement 2
{ //Statement 3
If (t>13) //Statement 4
jTextField1.setText("Something"); //Statement 5
else //Statement 6
jTextField1.setText("Pass"); //Statement 7
t+=3; //Statement 8
} //Statement 9
While (t<=15); //Statement 10

```
22. What is the purpose of break keyword while using Switch Case Statement? Illustrate with the help of an example.
23. While working with Netbeans, Ms. Khorana wants to display 'Pass' or 'Needs to Reappear' message depending on the marks entered in JTextField. Help her to choose the most appropriate statement out of 'If statement' and 'Switch statement'.
24. Write JAVA code to assign the value 500 to variable x. Increase the value of x by 50 and store it in a variable y.
25. Write the output that will be generated by the code given below:
- ```

int i;
i = 7;
int r;
r = 8;
while(i<=10)
{
System.out.println(r*i);
i = i+2;
}

```
26. The following code has some error(s). Rewrite the correct code underline all the corrections made.
- ```

int marks, temperature;
Marks = jTextField1.getText () ;
temperature = Integer.parseInt(jTextField2.getText());

```

```

if (marks<80) and (tempreture>=40)
{
System.out.println("Not Good");
}
else;
{
System.out.println ("OK");
}

```

27. How many times will the following WHILE loop execute?

```

int y = 7, sum = 0;
while (y<=15)
{
Sum = sum + y;
y = y+2;
}

```

28. Rewrite the following program code using IF ELSE IF instead of SWITCH statement:

```

String tour;
int cl = Integer.pareInt(jTextField1.getText());
Switch (cl)
14
{
case 8: tour="\n You are going to Camp Rangarh";
break;
case 9: tour="\n You are going to Manali, Rohtang pass";
break;
case 10: tour="\n You are going to Chail";
break;
default: tour="No School tour for you this time";
}

```

29. Write the values of sum and x after execution of the following code:

```

int sum, x;
sum= 7;
x= 5;
sum=sum + (x++);

```

30. What will be the values of variables agg and aggl after the execution of the following loops ?

|                                                                                |                                                                                   |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <pre> <b>Loop 1</b> int a =9 ,agg=9; While (a&gt;10) {  agg+=a; a-=2; } </pre> | <pre> <b>Loop 2</b> int b =9,aggl=0; do { aggl+=b; b-=2; }while (b&gt;10); </pre> |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

31. What will be displayed in JTextAreal after the execution of the following loop ?

```

For (int I=5;I>=2;I--)
jTextArial.setText (j TextArial .getTextAreal.getText () +""+Integer.toString (I*I));

```

32. Rewrite the following Java code using a Switch case statement:

```

int option = Integer.parseInt(jTextField1.getText());

```

```

if(option==1)
jTextField2.setText("Regular employee");
else if (option==2)
jTextFeild2.setText("On probation");
else if(option==3)
jTextField2.setText("Visiting faculty");
else if(option==4)
jTextField2.setText("On Contract");
else
jTextField2.setText("Invalid Option!");

```

33. What will be displayed in jTextField1 after the execution of the following code:

```

int G=1;
do
{
jTextArea1.setText(Integer.toString(G++));
G=G+1;
}while(G<=5);

```

34. Rewrite the following Java code using a Switch case statement:

```

int option = Integer.parseInt(jTextField1.getText());
if(option==1)
jTextField2.setText("Regular employee");
else if (option==2)
jTextFeild2.setText("On probation");
else if(option==3)
jTextField2.setText("Visiting faculty");
else if(option==4)
jTextField2.setText("On Contract");
else
jTextField2.setText("Invalid Option!");

```

35. What will be displayed in jTextField1 after the execution of the following code:

```

int G=1;
do
{
jTextArea1.setText(Integer.toString(G++));
G=G+1;
}while(G<=5);

```

36. How many times will the following loop execute? Which one of the them is Entry Control and which one is Exit Control Loop?

|                                                                                      |                                                                                          |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <p>Loop 1:</p> <pre> Int i=10, sum=0; While(i&gt;1) {     sum+=i;     i-=3; } </pre> | <p>Loop 2:</p> <pre> Int i=10, sum=0; do {     Sum+=i;     i-=3; } while(i&gt;1); </pre> |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

37. What will be displayed in jTextField1 and jTextField2 after the execution of the following loop?
- ```
int Sum=0,Last=10;
for (int C=1;C<=Last;C+=2)
Sum++;
jTextField1.setText(Integer.toString(Sum));
jTextField2.setText(Integer.toString(C));
```
38. Mr.Kapoor is a programmer at Ekansh Enterprises. He created 5 digit password and stored in a string variable called strPassword. He wants to store the same password in an integer type variable called intPassword. Write an appropriate Java statement to transfer the content from strPassword to intPassword.
39. What will be the content of jTextField1 and jTextField 1 after the execution of the following statements?
- ```
jTextArea1.setText("Just\tAnother\nDay")
ii. string Subject="Informatics Practices";
jTextField1.setText((Subject.length()+10)+" ")
```
40. Rewrite the following programme code using a if statement :
- ```
String Remarks;
Int Code=Integer.parseInt(jTextField1.getText());
Switch(code)
{
case 0 : Remarks="100% Tax Exemption";
Break;
case 1 : Remarks="50% Tax Exemption";
break;
case 2 : Remarks="30% Tax Exemption";
break;
default : Remarks="!Invalid Entry";
}
```
41. What will be displayed in jTextField1 and jTextField2 after the execution of the following code?
- ```
int Last,First=3,Second=5;
Last = First + Second++ ;
jTextField1.setText(Integer.toString(Last));
jTextField2.setText(Integer.toString(Second));
```
42. What will be the content of the jTextField1 after executing the following code (Assuming that the jTextField1 had no content before executing this code)?
- ```
For(int C=1;C=4;C++)
{
jTextArea1. setText(
jTextArea1.getText() + " " +
Integer.toString(C*C));
```
43. What message will be displayed after the execution of following code?
- ```
int Age=64,Relaxation=4;
intModiAge=Age-Relaxation;
if(ModiAge<60)
jOptionPane.showMessageDialog(Null, "NOT eligible");
else
JOptionPane.showMessageDialog(Null, "Eligible");
```

44. Rewrite the following program code using a if statement:
- ```
int C=jComboBox1.getSelectedIndex();
switch(c)
{
case 0 : Amount=Bill ; break;
case 1 : Amount=0.9*Bill ; break ;
case 2 : Amount=0.8*Bill ; break;
default : Amount = Bill;
}
```
45. How many times will the following while loop get executed ?
- ```
int K=5;
int L=36;
while (K<=L)
{
K+=6;
}
```
46. What will be displayed in JTextAreal after executing the following statement ?
- ```
JTextArea, setText(“GREAT\nCOUNTRY\tINDIA”);
```
47. What will be the values of the variables ‘m’ and ‘n’ after the execution of the following code?
- ```
int P, Q=0;
for (P=1; P<=4; P++)
{
Q+=P;
Q--;
}
```
48. Given a string object named Pay having value as “68000” stored in it. Obtain the output of the following:
- ```
JOptionPane.showMessageDialog(null, “ ”+Salary.length()+Integer.parseInt(Salary));
```
49. What will be the value of P and Q after execution of the following code ?
- ```
int P,Q=100;
for (P=10;P<=12;P++)
{
Q+=P;
}
JOptionPane.showMessageDialog (this, ”P:”+P+” Q:”+Q+””);
```
50. What will be displayed in of jTextField1 after executing the following code?
- ```
int m = 16;
m = m+1;
if (m < 15 )
jTextField .setText (Integer . toString (m));
else
jTextField1.setText (Integer.toString (m+15));
```
51. Rewrite the following program code using a Switch statement:
- ```
if (code == 1)
Month = “January”;
else if (code == 2)
Month = “February”;\
else if (code == 3)
Month = “March”;
else if (code == 4)
```

```
Month = "April";
else
```

```
Month = "No Match";
```

52. What will be displayed in JTextArea1 after executing the following statement ?

```
JTextArea1 .setText ("cbse\nFinal_Exam\lIp");
```

53. The following code has some error(s). Rewrite the correct code underline all the corrections made:

```
int k = 2;sum = 0;//declaring k and sum as Integer
```

```
{
```

```
sum = k;
```

```
K += 2;
```

```
}
```

```
while (k =<20);
```

```
JTextField1(Integer.toString(sum));
```

54. Given a string object namely 'subject', having value as "123" stored in it. What will be the result of the following?

```
JOptionPane .showMessageDialog(null, "" +
```

```
(subject . length () + Integer.parseInt (subject)));
```

55. The following code has some error(s). Rewrite the correct code underlining all the corrections made:

```
int Sum=0, step=5;
```

```
int I;
```

```
for(i = 0, i =<= 5 , i++)
```

```
{
```

```
Step+=5;
```

```
Sum+=Step;
```

```
}
```

```
JTextAreal.showText(""+Sum);
```