

Lecture Review Quiz #3

Solutions

1. What is the output of the following code fragment if the input value is 4?

```
int num;  
int alpha = 10;  
cin >> num; 4  
switch (num)  
{  
    case 3:  
        alpha++;  
        break;  
    case 4:  
        ↓  
    case 6: → 13  
        alpha = alpha + 3;  
        ↓  
    case 8: → 17  
        alpha = alpha + 4;  
        break;  
    default:  
        alpha = alpha + 5;  
}  
↪ cout << alpha; (Points : 1)
```

☐ A) 13

☒ B) 17

☐ C) 14

☐ D) 22

☐ E) 10

Question 2. 2.

What is the output of the following code if the input is '*'?

```
char c;  
cin >> c;  
switch(c) {  
    case '+': cout << " \n addition operation performed";  
    case '*': cout << " \n multiplication operation performed"; break;  
}
```

```

case '-': cout<<" \n subtraction operation performed"; break;
case '%': cout<<" \n mod operation performed"; break;
default:  cout<<" \n invalid operator";
}

```

(Points : 1)

- ☐ A) addition operation performed
multiplication operation performed
- ☒ B) multiplication operation performed
- ☐ C) addution operation performed
- ☐ D) invalid operator
- ☐ E) Error

Question 3. 3. Re-write the following code segment using switch-case statement

```
choice = scan.nextInt();
```

```
// Respond to the user's menu selection.
```

```
if (choice == 1)
```

```
{
    System.out.println("For how many months? ");
    months = scan.nextInt();
    charges = months * ADULT;
    System.out.println("The total charges are $" + charges);
}
```

```
}
else if (choice == 2)
```

```
{
    System.out.println("For how many months? ");
    months = scan.nextInt();
    charges = months * CHILD;
    System.out.println("The total charges are $" + charges );
}
```

```
else if (choice == 3)
```

```
{
    System.out.println("For how many months? ");
    months = scan.nextInt();
    charges = months * SENIOR;
    System.out.println("The total charges are $" + charges);
}
```

```
else if (choice == 4)
```

```
{
```

```
.cin>> choice;
switch (choice) {
```

```
case 1:
```

```
A
break;
```

```
case 2:
```

```
B
break;
```

```
case 3:
```

```
C
break;
```

```
case 4:
```

```
D
break;
```

```
default:
E
```

```
}
```

```
        System.out.println("Program ending."); } D
    }
    else
    {
        System.out.println("The valid choices are 1 through 4. Run the"); } E
        System.out.println("program again and select one of those.");
    }
}
(Points : 2)
```