

# SECJ1013 - 05 (PROGRAMMING TECHNIQUE I) SEMESTER 1, 2020/2021 ASSIGNMENT 2

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# **TEACHER-IN-CHARGE**

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### **Section A**

1. Answer: False

Reason: There is no break statement in case 2. The program would execute the

following lines until it meets the break statement in case 3 which makes the

program calculate interest = 2.9.

2. Answer: True

Reason: y/x will result in integer division which means that the remainder or

fractional part of the result will be discarded or truncated. As a result, 2/3

will only return integer value 0.

3. Answer: False

Reason: It is the exit() function that causes a program to terminate, regardless of

which function or control mechanism is executing.

4. Answer: True

Reason: a is a static local variable that retains its value between each function call

but *b* does not.

# **Section B**

# Answer 1(a):

```
#include <iostream>
using namespace std;
int main() {
      char x='n';
      cout<<"enter 'y' or non-'y': "<<endl;
      cin>>x;
      (x == 'y')?cout<<"answer is = 1":cout<<"answer is = 0";
      cout<<endl;
      system("pause");
      return 0;
}</pre>
```

### Answer 1(b):

```
#include <iostream>
using namespace std;
int main(){
       double balance = 300;
       char depo wd;
       double depo_balance;
       double wd balance;
       double latest balance;
       do{
       cout<<"enter: d - deposit, w - withdrawal"<<endl;</pre>
       cin>>depo_wd;
              switch(depo_wd){
                      case 'd':
                             cout << "enter amount of deposit: RM";
                             cin>>depo balance;
                             latest balance=balance+depo balance;
                             cout<<"your current balance is now : RM"<<latest balance;</pre>
                             break;
                      case 'w':
                             cout << "enter amount of withdrawal: RM";
                             cin>>wd_balance;
                             latest_balance=balance-wd_balance;
                             cout<<"your current balance is now : RM"<<latest balance;</pre>
                             break;
                      default:
                             cout<<"please enter the right command!"<<endl;</pre>
               }
       }while(!(depo wd=='d'||depo wd=='w'));
       return 0; }
```

# Answer 2(a):

}

```
int main(){
       int a,x=0;
       do{
       cout<<"Please enter a number in the range of 1 through 4: "<<endl;
       cin>>a;
       }while(!(a>=1 && a<=4));
       switch(a){
              case 1:
                     case 2:
                            x++;
                            break;
              case 3:
                     case 4:
                            x--;
                            break;
              default:
                     cout << (x+=2);
                     break;
       }
       cout<<x<<endl;
       system("PAUSE");
       return 0;
```

```
Answer 3(a):
```

```
void input(double&a, double&b, double&c, double&d){
       cout<<"Please enter the number of days spent : ";</pre>
       cin>> a;
       cout<<"Please enter the daily room rate : ";</pre>
       cin >> b;
       cout<<"Please enter the medication charges : ";</pre>
       cin>> c;
       cout<<"Please enter the service charges : ";</pre>
       cin >> d;
}
Answer 3(b):
double totalCharge(double a, double b, double c, double d){
       double total = a*b+c+d;
       return total;
}
double totalCharge(double c, double d){
       double total = c+d;
       return total;
}
```

### Answer 4(a):

3

```
Answer 4(b):
   6 12
   0 \ 0 \ 0
  12 14 0
  14 15 -1
  16 15 -1
  14 15 -1
Answer 4(c):
int input(){
       cout<<"Please enter the number of employees in the company: ";</pre>
       cin >> num;
       return num;
}
int totalDay(int num){
       int days, total = 0;
       for (int i = 0; i < num; i++){
               cout << "Enter the number of days each employee absent in the past year : ";
               cin >> days;
               total = total + days;
       }
       return total;
}
double calcAvg(int num1, int num2){
       return (static_cast<double>(num2)/num1);
}
```