

Question 1

```
#include <stdio.h>
int main(void)
{
    int i;
    int upper = 0;
    char myArray[100];

    printf("input word : ");
    scanf("%s" , myArray);

    for(i=0; myArray[i]!= '\0'; i++){
        if(myArray[i] % 2 == 0)
        {
            printf("%c\t" , myArray[i]);
        }
}
```

```
else
{
    printf("*\t");
}
return 0;
}
```

```
Following program is written by a student to display the result of factorial of n.
n! = 1 * 2 * 3 * 4....n
The factorial of a negative number doesn't exist. And the factorial of 0 is 1.
There are five errors in the program. Find the errors and write down the corrected statements in given space.
1. #include <stdio.h>
2. int main()
3. {
4. int n, i;
    int fact = 0;
 6.
 7. printf("Enter an integer: ");
 8. scanf("%f", &n);
 9.
 10. #Display error message
  11. If (n < 0)
  12.
      printf("Error\n");
  13. else
  14. {
  15. for (i = 1; i <= n; ++i)
```

```
15. for (i = 1; i <= n; ++i)

16. {

17. fact *= n;

18. }

19. printf("Factorial of %d = %d", n. i);

20. }

21.

22. return 0;

23.}

Corrected Statement 01:

Corrected Statement 02:

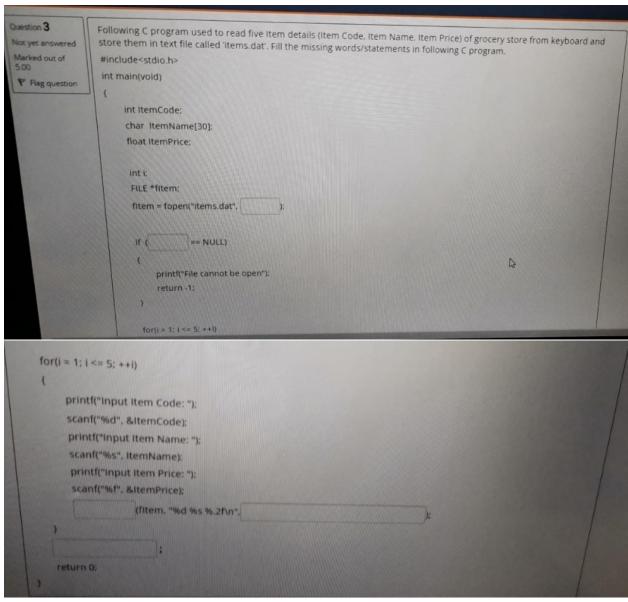
Corrected Statement 03:

Corrected Statement 03:

Corrected Statement 03:
```

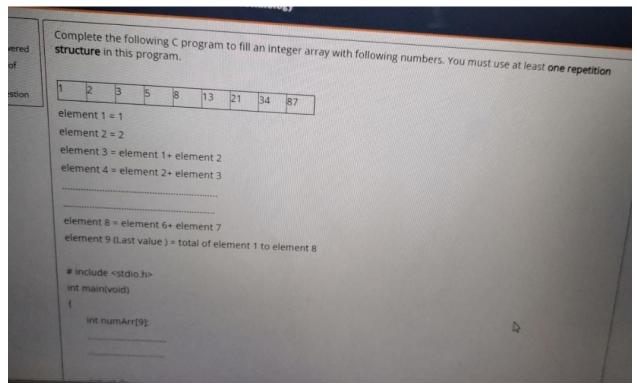
Question 2

```
01 :- scanf("%d", &n);
02 :- fact = 1;
03 :- //display error massage
04 :- fact *= I;
05 :- printf("Factorial od %d = %d ", n, fact );
```



Question 3

```
01 :- "w+"
02 :- fltem
03 :- fltem
04 :- fprintf
05 :- ItemCode , ItemName , ItemPrice
06 :- fclose ( fltem )
```



Question 4

```
#include <stdio.h>
```

```
//function main program execution
int main (void )
{
    int i , sum ;
    int numArr[9] ;

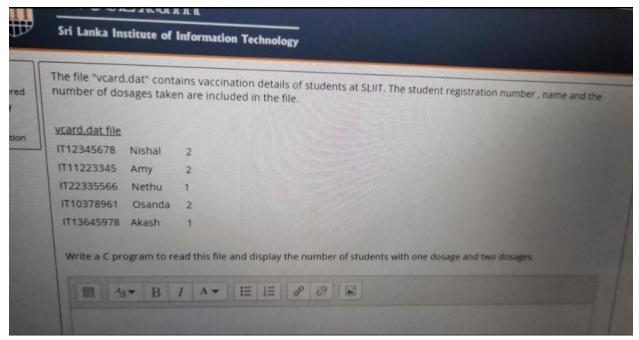
    numArr[0] = 1 ;
    numArr[1] = 2 ;
    sum = numArr[0] + numArr[1] ;

    printf("%d %d " , numArr[0] , numArr[1]);

    for (i = 2 ; i < 8 ; i++)
    {
        numArr[i] = numArr[i-2] + numArr[i-1] ;
        printf("%d " , numArr[i]);
        sum += numArr[i] ;
    }
    numArr[8] = sum ;
    printf("%d" , numArr[8] );</pre>
```

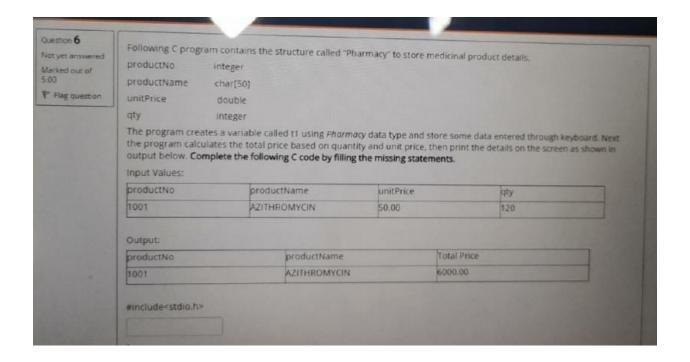
return 0;

} //end function main



Question 5

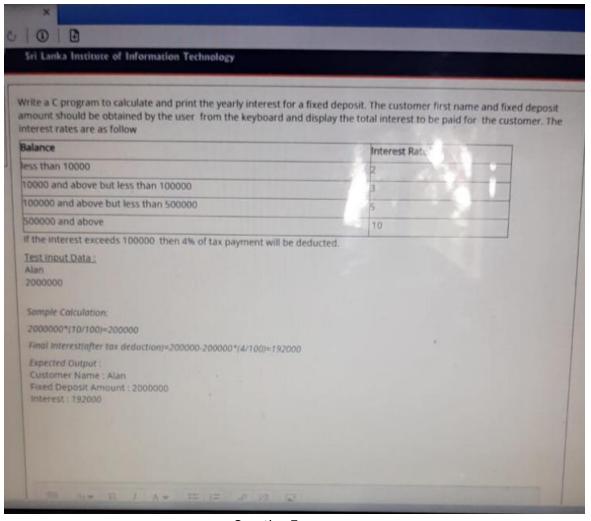
Before the programming Create a vcard file and store the Question's details



	#include <std< th=""><th></th></std<>	
	int productNo;	
	char productName[30]:	
	double unitPrice;	
	int qty;	
):	
	int main(void)(
	int i:	
	float total;	
	t1;	
	printf("Enter Product No: "):	
	- Y	
	printf("Enter Product Name: ");	
	scanf("%s", t1.productName):	
	printf("Enter Product Price: ");	
	scanf("%lf", &t1.unitPrice);	
	printf("Enter Product Quantity: ");	
	scanf("%d", &t1.qty):	
scanf("%d", &	tt.qty):	
return 0:		

Question 6

```
01:- struct Pharmacy
02:- struct Pharmacy
03:- scanf( "%d ", &t1.productNo );
04:- total = t1.unitPrice * t1.qty;
05:- printf("%d \t %s \t %.2f ", t1.productNo , t1.productName , total );
```



Question 7

```
int main()
{
   char name[50];
   int amount , tax;

   printf("Customer name : ");
   scanf("%s" , name);
```

#include <stdio.h>

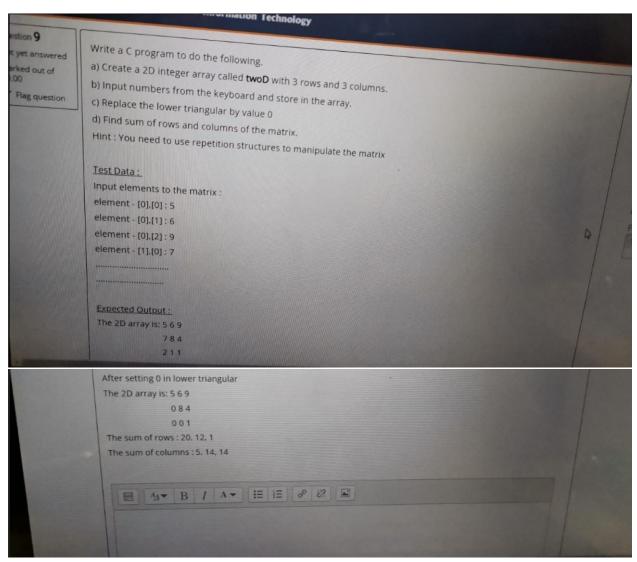
```
printf("Fixed Diposit amount :" );
  scanf("%d" , &amount);
  if(amount < 10000)
    tax = amount * (2.0 / 100);
  else if(amount >= 10000 && amount < 100000)
  {
    tax = amount * (3.0 / 100);
  else if(amount >= 100000 && amount < 500000)
    tax = amount * (5.0 / 100);
  else if(amount >= 500000)
    tax = amount * (10.0 / 100);
  }
  if (tax > 100000)
    tax = tax - tax * (4.0 / 100);
  printf("Interest : %d" , tax);
  return 0;
}
```

```
Complete the following C statement to calculate the result of \sqrt[3]{b*b-4*a*c}
Assume a, b and c variables are integers.

float answer = ( ( ( , 2) - 4*a*c)):
```

Question 8

```
01 :- sqrt
02 :- fabs
03 :- pow
04 :- b
```



Question 9

```
#include <stdio.h>
int main (void)
{
    int twoD[3][3];
    int i , j;
    int sum_row[3] = {0};
    int sum_columns[3] = {0};
```

```
printf("input element of matrix : \n");
for (i = 0; i < 3; i++)
        for(j = 0; j < 3; j++)
                 printf("element - [%d],[%d] : " , i , i);
                 scanf("%d", &twoD[i][j]);
        }
}
printf("\n2D array is : \n");
for (i = 0; i < 3; i++)
{
        for (j = 0; j < 3; j++)
                 printf("%d ", twoD[i][j]);
        puts(" ");
}
printf("\nAfter settinf 0 in lower tringular\n");
printf("\n2D array is : \n");
for (i = 0; i < 3; i++)
        for (j = 0; j < 3; j++)
        {
                 if (i <= j)
                 {
                          printf("%d ", twoD[i][j]);
                 }
                 else
                 {
                          twoD[i][j] = 0;
                          printf("%d " , twoD[i][j]);
                 }
        puts(" ");
```

```
}
        printf("\nThe sum of rows : ");
        for (i = 0; i < 3; i++)
                 for (j = 0; j < 3; j++)
                         sum_row[i] += twoD[i][j];
                 printf("%d " ,sum_row[i] );
        }
        printf("\nThe sum of columns : ");
        for (i = 0; i < 3; i++)
        {
                 for (j = 0; j < 3; j++)
                         sum_columns[i] += twoD[j][i];
                 printf("%d " ,sum_columns[i] );
        }
        return 0;
}
```

An event management company needs to implement a system to manage their online events. They want to create few functions to be integrated to the system such as register a user to the event, purchase event ticket, grant discounts based on each event. To purchase ticketes, one must submit the ticket type(tType). 1- Gold. 2 - Silver, 3 - Bronze, session (session). (m-morning. a - afternoon, e -evening) and the number of tickets to purchase (ticketCount). Then the function should display the amount of the ticketes purchased. Ticket Type Price 1 - Gold 5000/= 2 - Silver 2500/= 3 - Bronze 1000/= Fill in the blanks to complete the function purchase(). int ticketCount) purchase(tType, float total = 0.0; if(tType == 1) total = ticketCount * 5000.0; else if(tType == 2) total = ticketCount * 2500.0;

Question 10

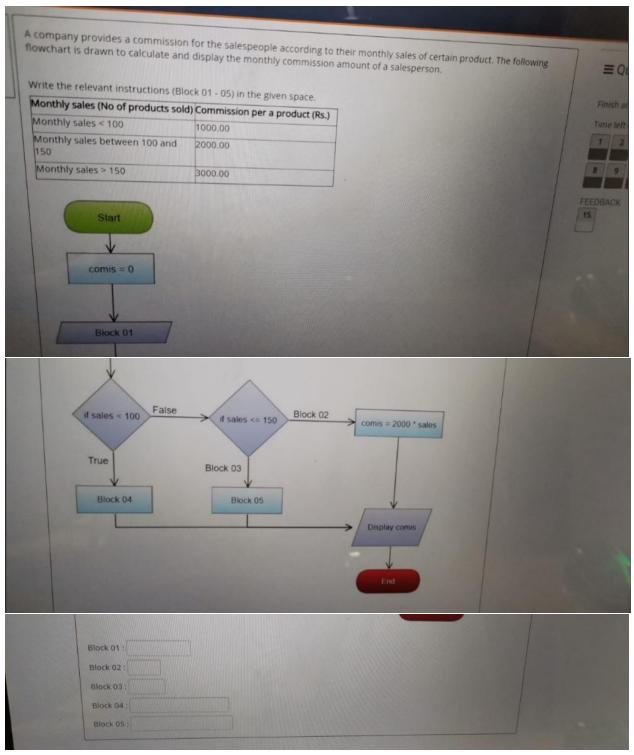
01:- void02:- int03:- char04:- session

05 :- total

```
Write two assert statements to test the following function. This function will return Surface Area of Cylinder when it's
double cylinderSurfaceArea(double r, double h)
         double area;
         area = (2 * 22 / 7.0 * r * h) + (2 * 22 / 7.0 * r * r);
         return area;
 Sample Data
  radius(r)
                       height(h)
                                         Area of cylinder surface (area)
  5.0
                       8.0
                                         408.41
  7.0
                       10.0
                                         747.7
    BIAT BI AT E E S CO
```

Question 11

assert (fabs (double cylinderSurfaceArea (5.0, 8.0) - 408.41) < 0.001); assert (fabs (double cylinderSurfaceArea (7.0, 10.0) - 747.7) < 0.001);

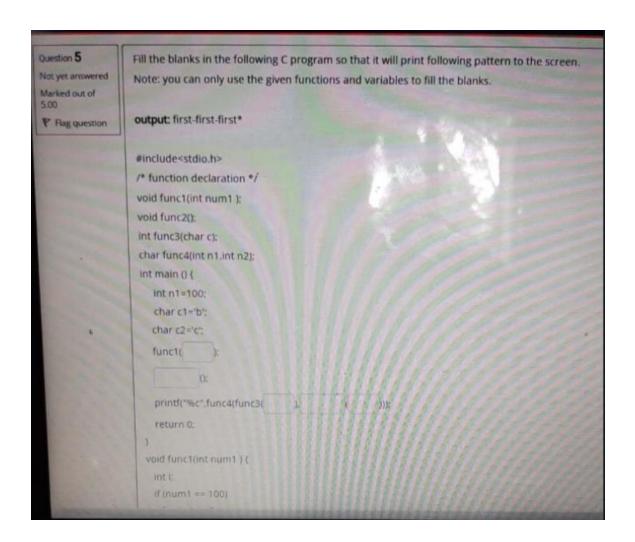


Question 12

Block 01: input sales

Block 02 :- Ture Block 03 :- False

Block 04 :- comis = 1000 * sales Block 05 :- comis = 3000 * sales



```
int i:
 if (num1 == 100)
   for (i=1;i < 3;++i) (
        func2():
        printf("-"):
 ) else
   printf("Second");
void func2() {
   printf("first");
int func3(char c) (
   switch (c)(
   case 'a': return 1:
   case 'b': return 2:
    case 'c': return 3;
 char func4(int n1.int n2) (
    if (n1==2 && n2==3)
      return **;
   else
      return '+":
```

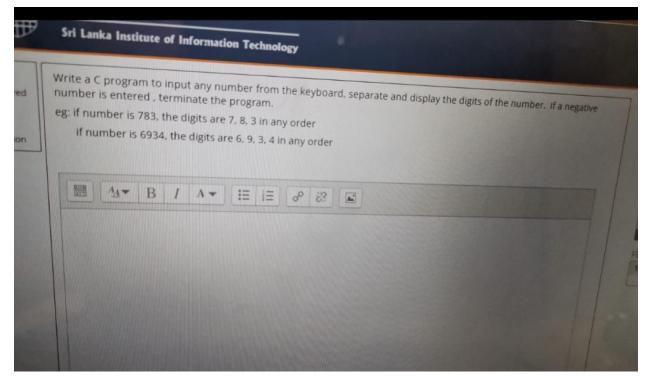
Question 13

```
func1 ( n1 );
func2 ( );
printf( " %c " , func4( func3 ( c1 ) , func3 ( c2 ) ));
```

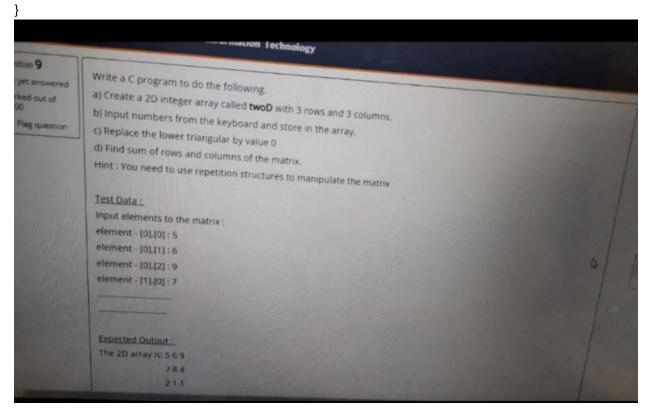
```
Fill the blanks in the following c program so that it will print following pattern to the screen. Note: you can only use the
                                                                                                                                       =0
Output: firstthird-firstthird-firstthird9
 #include <stdio.h>
 /* function declaration */
 void func_a(int num1);
  void func_b();
  int func_d(char c);
  char func_e(int n1,int n2);
  int main ()
   {
        int m1 = 100:
       char c1 = 'a':
       char c2 = 'c':
        func_a(
                  O:
        printf("%c",func_e(func_d(
               int i;
               if (num1 == 100)
                  for (i = 1;i < 3; ++i)
                      func_b();
                       printf("-");
                  }
                    printf("Second");
              void func_b()
                    printf("first");
                    printf("third");
               int func_d(char c)
                      switch (c)
                          case 'a': return 1;
                          case 'b': return 2:
```

Question 14

```
func_a ( m1 );
func_b ( );
printf( " %c " , func_e( func_d ( c1 ) , func_d ( c2 ) ));
```



Question 15



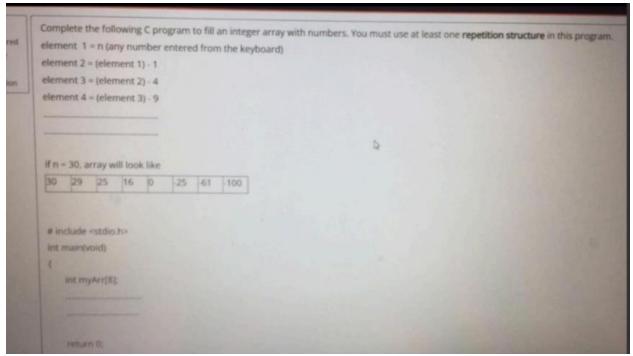
```
element - [0],[2]: 9
element - [1],[0]: 7

Expected Output:
The 2D array is: 569
784
211
After setting 0 in lower triangular
The 2D array is: 569
084
001
The sum of rows: 20, 12, 1
The sum of columns: 5, 14, 14
```

Question 16

```
#include <stdio.h>
int main (void)
        int twoD[3][3];
        int i, j;
        int sum_row[3] = \{0\};
        int sum_columns[3] = {0};
        printf("input element of matrix : \n");
        for (i = 0; i < 3; i++)
                 for(j = 0; j < 3; j++)
                 {
                         printf("element - [%d],[%d] : " , i , i);
                         scanf("%d", &twoD[i][j]);
                 }
        }
        printf("\n2D array is : \n");
        for (i = 0; i < 3; i++)
```

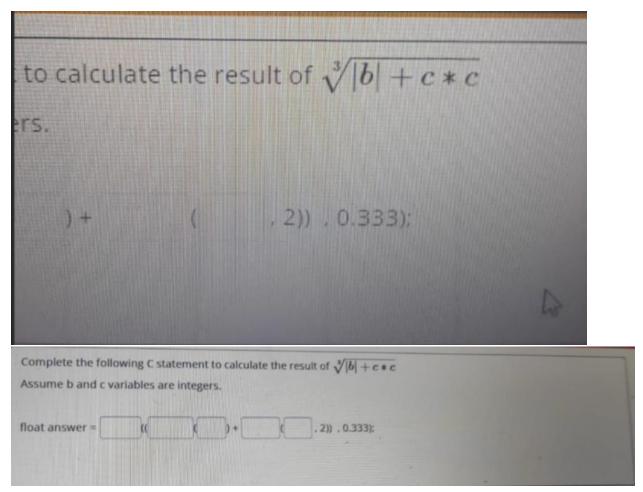
```
{
         for (j = 0; j < 3; j++)
                 printf("%d ", twoD[i][j]);
        puts(" ");
}
printf("\nAfter settinf 0 in lower tringular\n");
printf("\n2D array is : \n");
for (i = 0; i < 3; i++)
{
         for (j = 0; j < 3; j++)
                 if (i \le j)
                 {
                          printf("%d ", twoD[i][j]);
                 else
                 {
                          twoD[i][j] = 0;
                          printf("%d " , twoD[i][j]);
                 }
         puts(" ");
}
printf("\nThe sum of rows : ");
for (i = 0; i < 3; i++)
{
         for (j = 0; j < 3; j++)
                 sum_row[i] += twoD[i][j];
         printf("%d " ,sum_row[i] );
}
printf("\nThe sum of columns : ");
for (i = 0; i < 3; i++)
{
```



Question 16

```
//function main program execution
int main (void )
{
    int i ,num;
    int myArr[8];
    printf("Enter the number : ");
    scanf("%d" , &num);
```

#include <stdio.h>

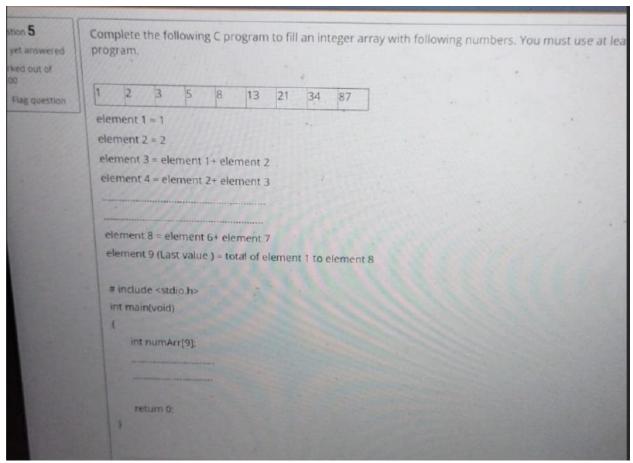


Question 17

01 :- pow 02 :- fabs

03 :- b

04 :- pow 05 :- c



Question 18

```
#include <stdio.h>
```

```
//function main program execution
int main (void )
{
    int i , sum ;
    int numArr[9] ;

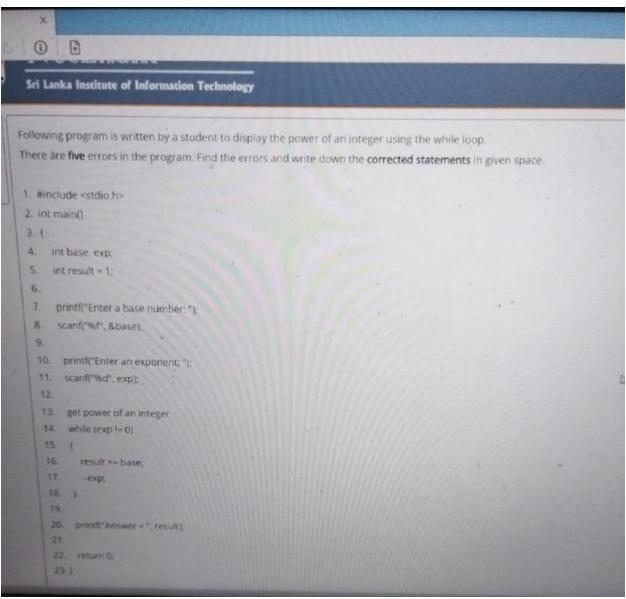
    numArr[0] = 1 ;
    numArr[1] = 2 ;
    sum = numArr[0] + numArr[1] ;

    printf("%d %d " , numArr[0] , numArr[1]);

    for (i = 2 ; i < 8 ; i++)</pre>
```

```
{
    numArr[i] = numArr[i-2] + numArr[i-1];
    printf("%d ", numArr[i]);
    sum += numArr[i];
}
numArr[8] = sum;
printf("%d", numArr[8]);
return 0;
```

} //end function main



Question 19

```
8 line :- scanf("%d", &base);
11 line :- scanf("%d", &exp);
13 line :- //get power of an integer
16 line :- result *= base;
20 line :- printf("Answer = %d", result);
```

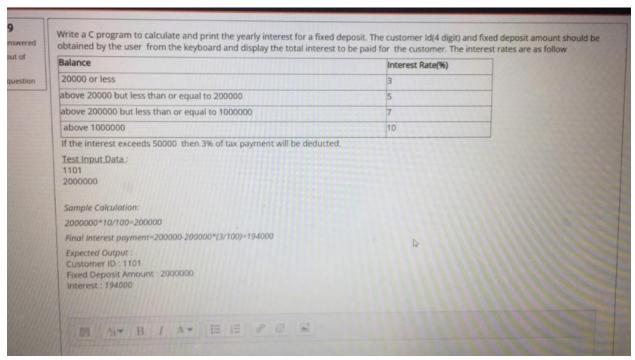
```
Test Data:
Input elements to the matrix:
element - [0],[0]: 4
element - [0],[1]:3
element - [0],[2]:8
element - [1].[0]:2
Expected Output:
The 2D array is: 438
               274
               695
After setting 1 in upper triangular
The 2D array is: 411
               271
              695
The sum of rows: 6, 10, 20
The sum of columns: 12, 17, 7
```

Question 20

```
#include <stdio.h>
int main (void)
```

```
int twoD[3][3];
int i , j ;
int sum_row[3] = {0};
int sum_columns[3] = {0};
printf("input element of matrix : \n");
for (i = 0; i < 3; i++)
        for(j = 0; j < 3; j++)
        {
                 printf("element - [%d],[%d] : " , i , i);
                 scanf("%d" , &twoD[i][j]);
        }
}
printf("\n2D array is : \n");
for (i = 0; i < 3; i++)
        for (j = 0; j < 3; j++)
                 printf("%d ", twoD[i][j]);
        puts(" ");
}
printf("\nAfter settinf 1 in upper tringular\n");
printf("\n2D array is : \n");
for (i = 0; i < 3; i++)
{
        for (j = 0; j < 3; j++)
                 if (i >= j)
                 {
                          printf("%d " , twoD[i][j]);
                 }
                 else
                 {
                          twoD[i][j] = 1;
```

```
printf("%d " , twoD[i][j]);
                         }
                }
                puts(" ");
        }
        printf("\nThe sum of rows : ");
        for (i = 0; i < 3; i++)
        {
                for (j = 0; j < 3; j++)
                {
                         sum_row[i] += twoD[i][j];
                printf("%d " ,sum_row[i] );
        }
        printf("\nThe sum of columns : ");
        for (i = 0; i < 3; i++)
        {
                for (j = 0; j < 3; j++)
                {
                         sum_columns[i] += twoD[j][i];
                printf("%d " ,sum_columns[i] );
        }
        return 0;
}
```



Question 21

```
#include <stdio.h>
int main()
{
    char name[50];
    int amount , tax;

    printf("Customer name : ");
    scanf("%s" , name);

    printf("Fixed Diposit amount :" );
    scanf("%d" , &amount);

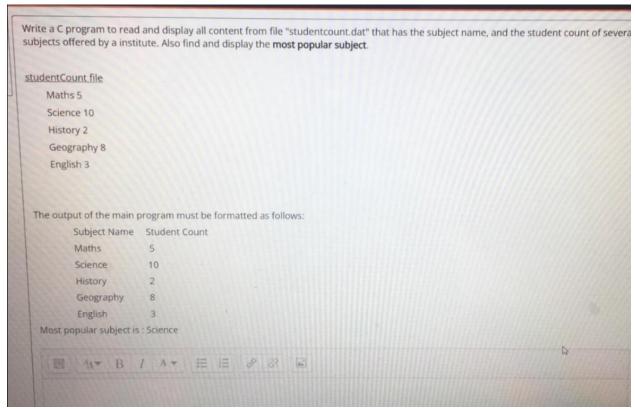
if(amount <= 20000)
{
    tax = amount * (3.0 / 100);
}

else if(amount > 20000 && amount <= 200000)
{
    tax = amount * (5.0 / 100);
}</pre>
```

```
else if(amount > 200000 && amount <= 1000000)
{
    tax = amount * (7.0 / 100);
}
else if(amount > 1000000)
{
    tax = amount * (10.0 / 100);
}

if (tax > 50000)
{
    tax = tax - tax * (3.0 / 100);
}

printf("Interest : %d" , tax);
return 0;
}
```



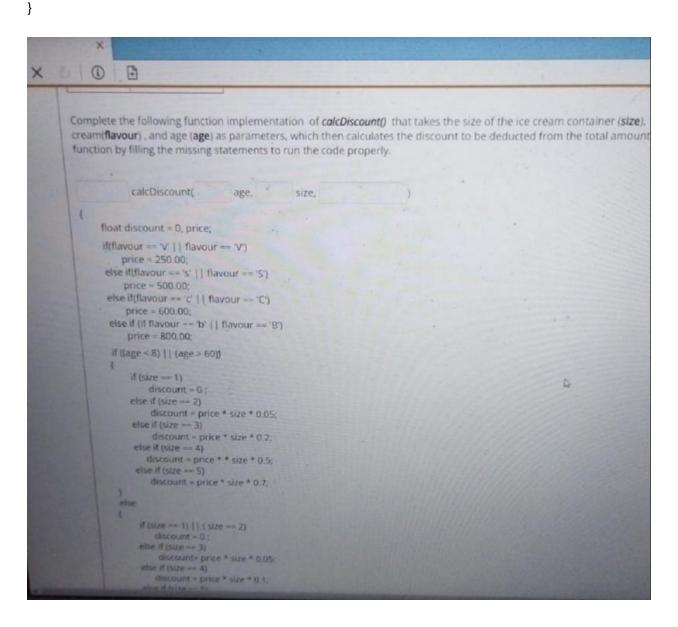
Question 22

```
File Edit Format View Help

Math 5 scince 10 History 2 Geography 8 English 3
```

```
#include <stdio.h>
#include <string.h>
int main (void)
        char sub[20];
        char m_sub[20];
        int count, most = 0;
        FILE *student;
        student = fopen ("studentcount.dat", "r+");
        if (student == NULL)
        {
               printf("File cannot open");
               return -1;
        }
        printf("Subject name \t\t student count\n");
        fscanf(student, "%s %d", sub, &count);
        most = count;
        while (!feof (student))
               printf("%s \t \t \d \n", sub, count);
               if (most < count)
               {
                        strcpy (m_sub, sub);
                        most = count;
               fscanf(student, "%s %d", sub, &count);
        printf("\nMost populay subject is : %s" , m_sub);
```

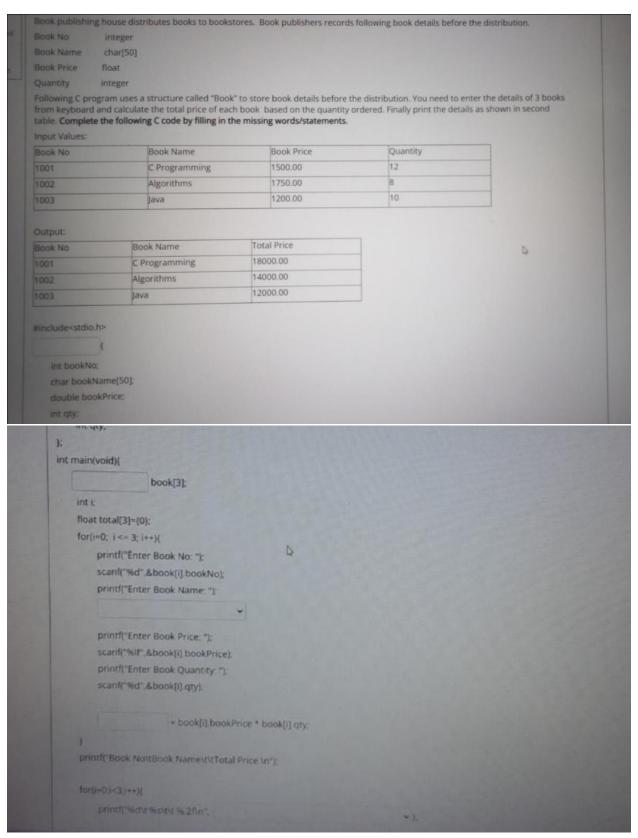
```
fclose (student);
return 0 ;
```



```
if ((age < 8) | | (age > 60))
     if (size == 1)
          discount = 0;
     else if (size == 2)
         discount = price * size * 0.05;
     else if (size == 3)
          discount = price * size * 0.2;
     else if (size == 4)
        discount = price * * size * 0.5;
     else if (size == 5)
         discount = price * size * 0.7;
else
{
     if (size == 1) | | ( size == 2)
         discount = 0;
     else if (size == 3)
         discount= price * size * 0.05;
     else if (size == 4)
        discount = price * size * 0.1;
     else if (size == 5)
         discount = price * size * 0.2;
 return discount
```

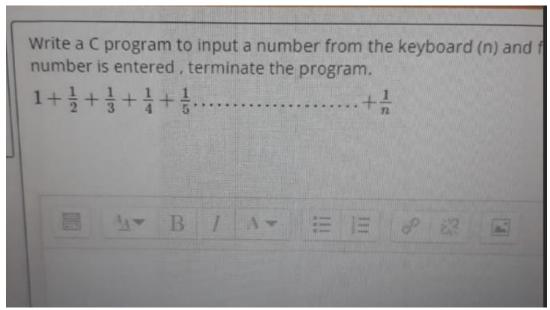
Question 23

01:- float02:- int03:- int04:- char flavour05:- discount;



Question 24

```
01 :- struct Book
02 :- struct Book
03 :- scanf( " %s " , book[i] . bookName );
04 :- total[i]
05 :- printf(" %d \t %s \t %.2f " , book[i].bookNo , book[i] . bookName , total[i] );
```



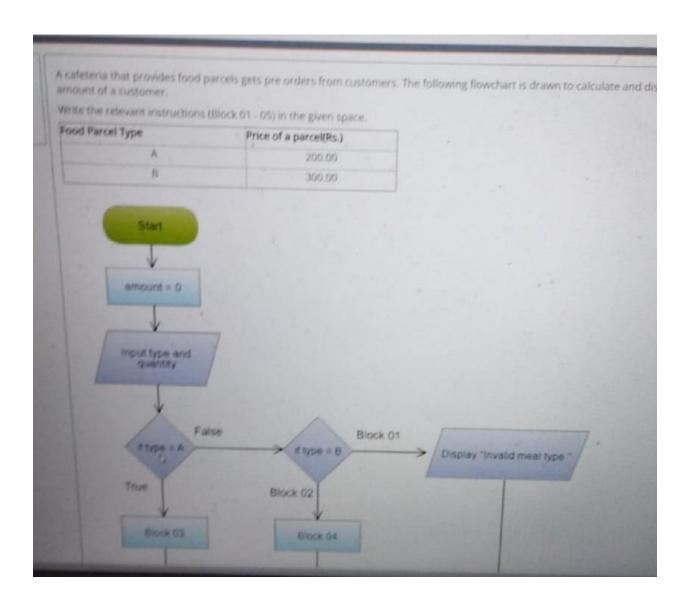
Question 25

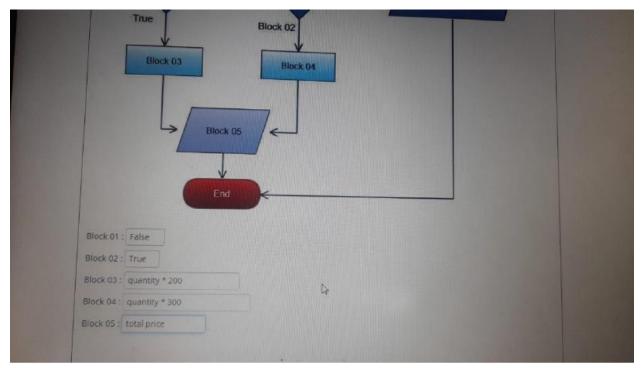
```
#include <stdio.h>
int main (void)
{
    int n , i ;
    float result = 0;

    printf("Enter the number : ");
    scanf("%d" , &n);

    for (i = 1 ; i <= n ; i++)
    {
        result += 1.0 / i ;
    }

    printf("\nanswer is = %.2f" , result);
}</pre>
```

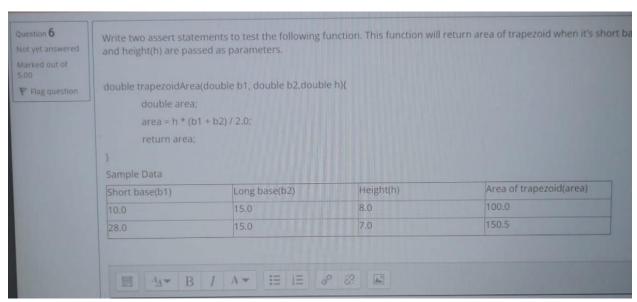




Question 26

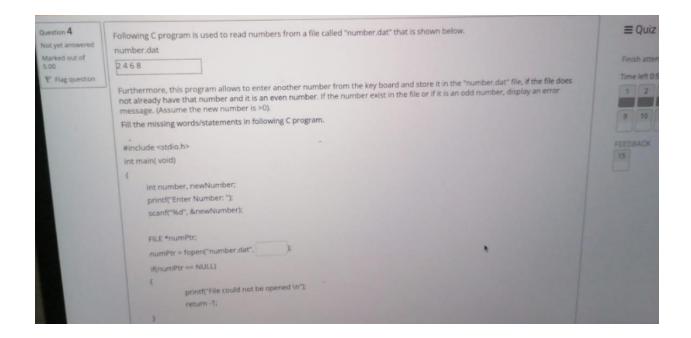
Blook 01 :- False Blook 02 :- Ture

Blook 03 :- quality * 200 Blook 04 :- quality * 300 Blook 05 :- total price



Question 27

assert (fabs (trapezoidArea (10.0, 15.0, 8.0) -100.0) < 0.0001); assert (fabs (trapezoidArea (28.0, 15.0, 7.0) -150.5) < 0.0001);



```
menumber newromber
printf("Enter Number: ");
 scanf("%d", &newNumber);
FILE *numPtr;
numPtr = fopen("number.dat", r+
if(numPtr == NULL)
         printf("File could not be opened \n");
         return -1;
fscanf(numPtr., "%d", &number);
while(!feof( numPtr ))
   if((number == newNumber) || ( number
                                              % 2 == 1))
       printf("Invalid Number.");
       return -1;
     fscanf
              (numPtr. "%d", &number);
 fprintf(numPtr,"%d ", number
 fclose(numPtr);
 return 0;
```

Question 28

01 :- "a+"02 :- numPtr03 :- newNumber04 :- fscanf05 :- newNumber

```
Write two assert statements to test the following function.

Int calculatePoints(float purchaseAmount)

if(purchaseAmount >= 5000)
    return 500;

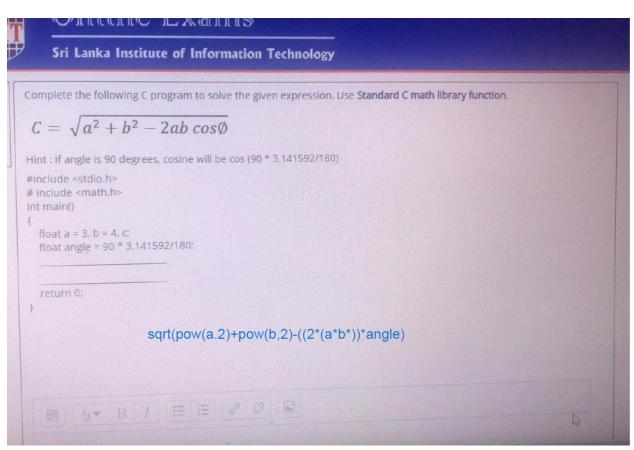
else if(purchaseAmount >= 3000)
    return 200;

else if(purchaseAmount >= 1000)
    return 100;

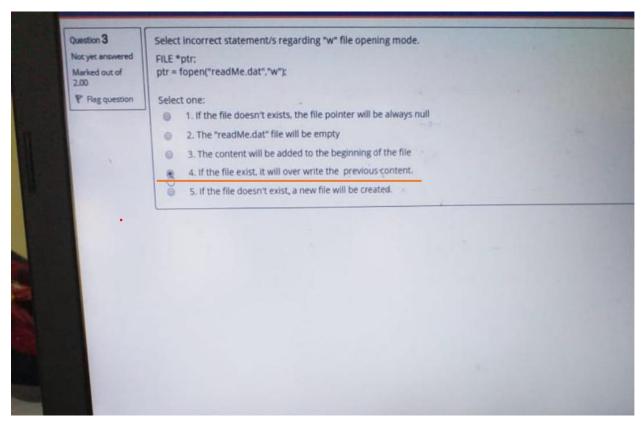
else

return 25;
```

Question 29



Question 30



Question 31

```
Suppose that 10 students face an aptitude test at SLIIT and the marks are stored in an array called marks. You are asked to complete the following C program to find the number of pass and fail students. The pass mark is the average mark of the students.

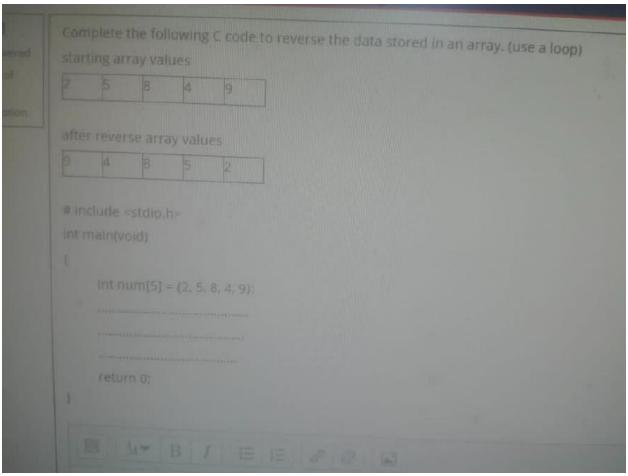
#include <stdio.h>
int main(void)

{
float marks[10] = {75.00, 45.00, 61.00, 91.00, 55.00, 43.00, 78.00, 56.00,95.00,12.00};

return 0;
}
```

Question 32

```
#include <stdio.h>
int main (void)
        int i , pass = 0 , fail = 0;
        float avg = 0;
        float marks[10] = \{75.00,45.00,61.00,91.00,55.00,43.00,78.00,56.00,95.00,12.00\};
        for (i = 0; i < 10; i++)
                 avg += marks[i];
        avg = (float)avg / 10.0;
        for (i = 0; i < 10; i++)
                 if (avg <= marks[i])</pre>
                          pass += 1;
                 else
                 {
                         fail += 1;
                 }
        }
        printf("no of pass students = %d\n" , pass);
        printf("no of fail students = %d" , fail);
        return 0;
}
```

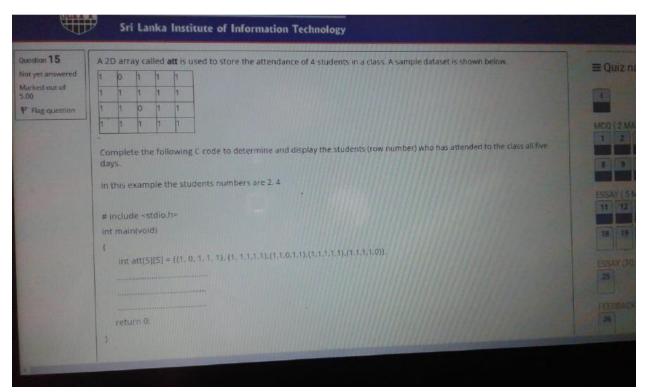


Question 33

```
#include <stdio.h>
int main (void)
{
    int num[5] = {2,5,8,4,9};
    int reverse[5];
    int i , j = 0;

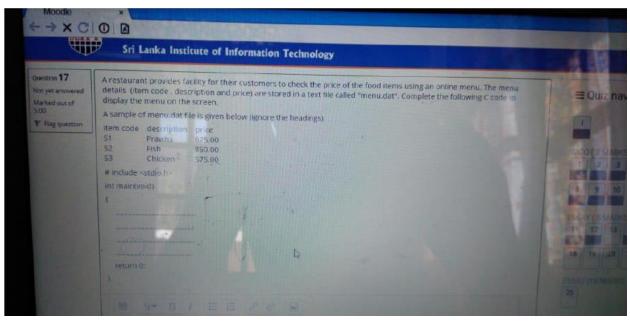
    printf("After reverse array values\n");
    for (i = 4; i >= 0; i--)
    {
        reverse[j] = num[i];
        printf("%d ", reverse[j]);
        j++;
    }

    return 0;
}
```



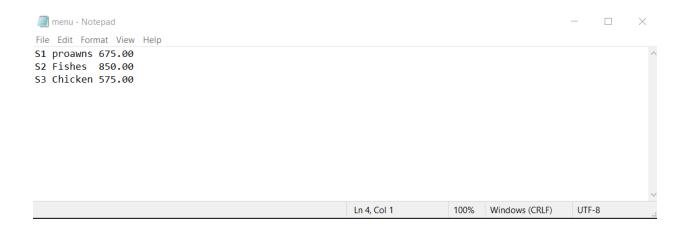
Question 34

```
} return 0; }
```



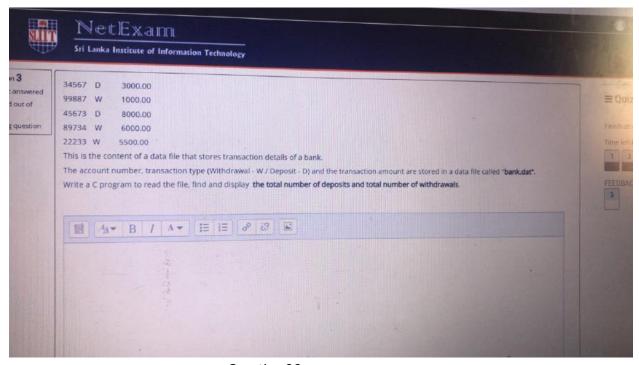
Question 35

Before the programming Create a file and store the Question's details



```
#include <stdio.h>
int main (void)
```

```
char code[10];
        char discri[50];
        float price;
        FILE *menu;
        menu = fopen("menu.dat" , "r+");
        if (menu == NULL)
        {
                 printf("File cannot open");
                 return -1;
        }
        fscanf(menu, "%s %s %f", code, discri, &price);
        printf("Item code \t description \t price \n");
        while (! feof (menu))
        {
                 printf("%s \t\t %s \t %.2f\n", code, discri, price);
                 fscanf(menu, "%s %s %f", code, discri, &price);
        fclose (menu);
        return 0;
C:\Users\Nimesh\OneDrive - Sri Lanka Institute of Information Technology\Desktop\ip final exam\ip final 1\Question 35.c. exe
Item code
                description
                               price
S1
S2
                proawns
                               675.00
                Fishes
                               850.00
                Chicken
                               575.00
Process exited after 0.03131 seconds with return value 0
Press any key to continue . . .
```



Question 36

Before the programming Create a file and store the Question's details

```
#include <stdio.h>
int main (void)
{
      char type;
      float amount, deposit = 0, withdrow = 0;

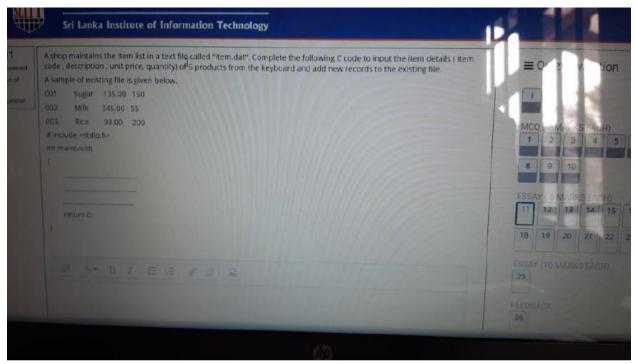
FILE *bank;
      bank = fopen ("bank.dat", "r+");
```

```
if(bank == NULL)
       {
               printf("File cannot open");
               return 0;
       }
       fscanf(bank, "%*d%c%f", &type, &amount);
       while (!feof (bank))
               if(type == 'D')
               {
                       deposit += amount;
               else
               {
                       withdrow += amount;
               fscanf(bank, "%*d%c%f", &type, &amount);
       }
       printf("Total number of deposits = %.2f\n" , deposit);
       printf("Total number of Withdrowals = %.2f" , withdrow);
       return 0;
}
```

```
□ C:\Users\Nimesh\OneDrive - Sri Lanka Institute of Information Technology\Desktop\ip final exam\ip final 1\question 36.exe  

Total number of deposits = 11000.00
Total number of Withdrowals = 12500.00

Process exited after 0.03666 seconds with return value 0
Press any key to continue . . .
```



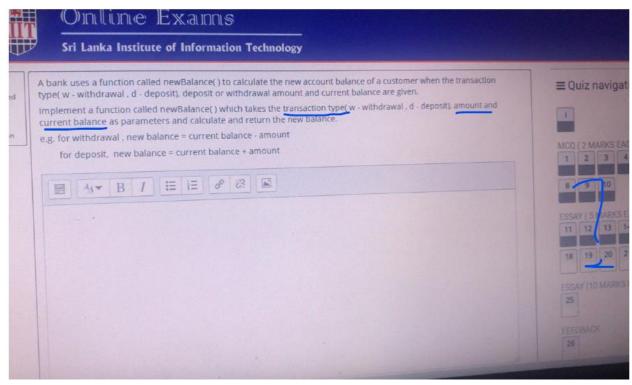
Question 37

```
#include<stdio.h>
int main (void)
  char itemCode[5] , description[50];
  float price;
  int i;
  FILE *shop;
  shop = fopen("menu.dat", "a+");
  if (shop == NULL)
        printf("File cannot open");
        return -1;
        }
  for (i = 0; i < 3; i ++)
    printf("Enter Item Code : ");
    scanf("%s" , itemCode);
    printf("Enter Description : ");
    scanf("%s" , description);
```

```
printf("Enter Price : ");
    scanf("%f" , &price);

fprintf(shop , "%s %s %.2f\n" , itemCode , description , price);
}

fclose(shop);
return 0;
}
```



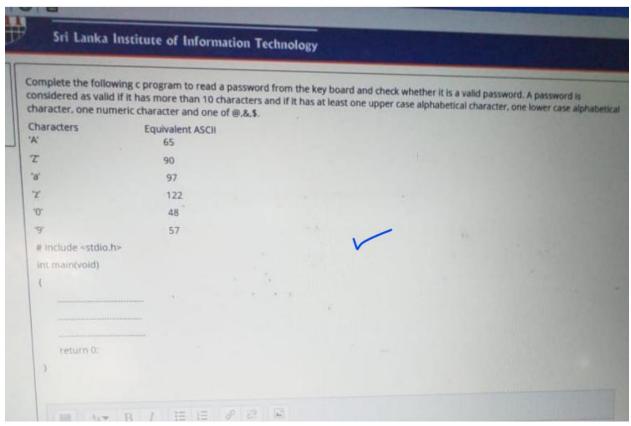
Question 38

```
............Here have function implement part only...........

newBalance ( float amount , float balance , char type) {
    float newBlance ;

    if (type == 'w')
    {
        newBalance = balnce - amount ;
        return newBalance ;
```

```
}
else if (type == 'd')
{
    newBalance = balnce + amount ;
    return newBalance ;
}
```



Question 39

......Here used #include <stdio.h> header file only.........
#include <stdio.h>

//function main program execution
int main (void)
{
 char password[100];
 int check[4] = {0};
 int len , i;

 printf("Enter the password :");

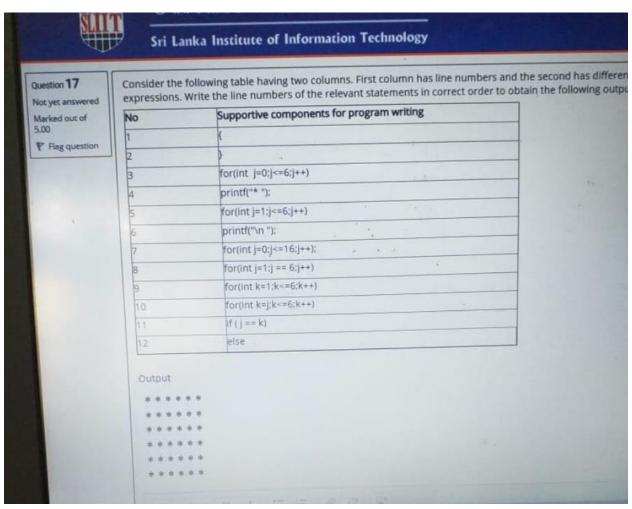
scanf("%s", password);

```
for (i = 0; password[i] != '\0'; i++)
              if(password[i] >= 65 && password[i] <= 90)
                      check[0] += 1;
                      continue;
              }
              else if(password[i] >= 97 && password[i] <= 122)
                      check[1] += 1;
                      continue;
              }
              else if(password[i] >= 48 && password[i] <= 57)
                      check[2] += 1;
                      continue;
              }
              else if(password[i] == '@' || password[i] == '&' || password[i] == '$')
              {
                      check[3] += 1;
                      continue;
              }
              else
              {
                      printf("\n invalid password");
                      return -1;
              }
     }
      if (i < 10)
{
      printf("\n invalid password");
              return -1;
      }
     for (i = 0; i < 4; i++)
      {
              if (check[i] == 0)
                      printf("\n invalid password");
```

```
return -1;
}

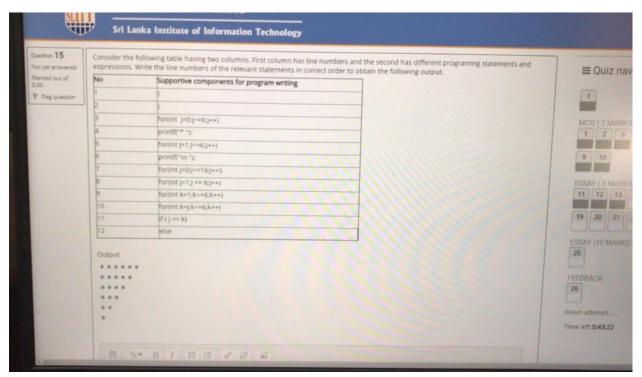
printf("\n valid password");

return 0;
}//end function main
```



Question 40

5 --> 1 --> 9 --> 1 --> 4 --> 2 --> 6 --> 2



Question 41

Ice Cream Discount		
Age	container size	discount
children less than 8 years old and senior citizens	11.	No discount
	2L	5%
	3L	20%
	4L	50%
	SL.	70%
For others	11.	No discount
	2L	No discount
	3L	5%
	4L	10%
	5L	20%

and the prices are as follows

Ice Cream Price		
Ravour	Price per liter	
Varilla	250/	
Strawberry	500/	
Chocolate	600/	
Butterscotch	800/	

Complete the following function implementation of colcDiscount() that takes the size of the ice cream container size, the flavour of the ice cream: flavour, and age (age) as parameters, which then calculates the discount to be deducted from the total amount. Complete the function by filling the missing statements to run the code properly.

```
is statements to run the code properly.
       calcDiscount( int
                             age, int
                                         size, char flavour
float discount = 0, price;
if(flavour == 'V' | | flavour == 'V')
   price = 250.00;
else if(flavour == 's' || flavour == 'S')
    price = 500.00;
else if(flavour == 'c' | | flavour == 'C')
   price = 600.00:
else if (if flavour == 'b' | | flavour == 'B')
   price = 800.00;
if ((age < 8) | | (age > 60))
   if (size == 1)
       discount = 0 :
   else if (size == 2)
      discount = price * size * 0.05:
   else if (size == 3)
      discount = price * size * 0.2:
   else if (size == 4)
     discount = price * * size * 0.5.
   else if (size == 5)
      discount = price * size * 0.7;
        else
             if (size == 1) || ( size == 2)
                  discount = 0:
             else if (size == 3)
                   discount= price * size * 0.05;
             else if (size == 4)
                 discount = price * size * 0.1;
             else if (size == 5)
                   discount = price * size * 0.2;
        return discount
```

Question 42

01:- float
 01:- int
 03:- int
 04:- char flavour
 05:- discount