

Question 3

Not yet answered

Marked out of
10.00

Flag question

Write a C program to input two words from the keyboard into two arrays called **Word1** and **Word2** and exchange and store the words in the arrays as following.

Input

Word1 = Hello , Word2 = World

After exchanging.

Word1 = World , Word2 = Hello

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

only divisible by number 1 and 3

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 1;
    printf("Enter a positive number greater than 1:\n");
    scanf("%d", &number);
    if (number == 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count == 2)
        printf("only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
    return 0;
}
```

BC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to account type and the account balance as shown in the table below;

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- i) Write a function called **calBonus()** to calculate the bonus given for an account by sending the account type and the account balance parameters

```
float calBonus( char accType, float accBalance)
```

- b) Write a function called **testCalBonus()** which contains the assert statements to debug the above implemented function.

The bank has also decided to give a gift for the account holders according to the new account balance after adding the bonus. The table below shows the criteria for the gifts

Account Type	Gift given for the new account balance (Rs)		
	Balance < 100,000	Balance between 100,000 - 200,000	Balance above 200,000
Fixed	No gift	Toaster	Blender
Savings	No gift	Wall clock	Tea set

- c) Write a function called **descWithGift()** to do the same job as the **descWithBonus()** function. This function takes the same arguments as the **descWithBonus()** function.

```
int main(void)
{
    int pieces, total=0;
    printf("Enter cloth pieces count: ");
    scanf("%d",&pieces);

    while( pieces < 500 || pieces>1000)
    {
        if(pieces < 500 || pieces>1000)
            printf("Number is invalid! \n");
        printf("Enter the next number\n");
    }
}
```

```
Line 02 int main()
Line 03 {
Line 04     int i, n, sum = 1;

Line 05     printf("Please enter n value : ");
Line 06     scanf("%d", &n);

Line 07     for(i = 1; i <= n; i--)
Line 08     {
Line 09         if (i % 2 == 0) #Check whether remainder is 0 or not
Line 10         {
Line 11             sum += n;
Line 12         }
Line 13     }

Line 14     printf("The summation of even numbers upto %d = %d", n);
Line 15     return 0;
Line 16 }
```

**Question 5**

Not yet answered

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5.00

Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

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

int main(void)
{
    int x = 4;
    float y = sqrt(1/(float)3) + pow((exp(x) + exp(-x))/2, 2);
    return 0;
}
```

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1)

```
char ch = 70;
```

```
int no = ch - 1;
```

```
printf("%c", no);
```

Note: ASCII value of A is 65

Output :

2)

```
printf("%d", 2 + (3 - 4) + 8 % 5 * 4);
```

Output :

3)

```
int i = 0;  
while (i <= 99)  
{  
    i++;  
}
```

```
printf("%d", i);
```

Output :

4)

```
char s[10];  
strcpy(s, "Hello");  
printf("%d", strlen(s));
```

Output :

5)

```
char letter = 'C';  
if (letter == 'V' || letter == 'v')  
    printf("Vanilla\n");
```

```
int mark[30], i=0;
```

```
int high,low;
```

```
printf("Enter marks for each student: \n");
```

```
for(i=0;i<30;i++)
```

```
    scanf("%d", &mark[i]);
```

```
high = mark[i];
```

```
low = mark[i];
```

↓

```
for(i=0;i<30;i++)
```

```
{
```

```
    if(mark[i]> high)
```

```
        high = mark[i];
```

```
    if(mark[i]< low)
```

```
        low = mark[i];
```

n 2

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g question

The following C program is written to find the sum of digits in an input number program with correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = 0 , digit;

    printf("Enter a number ");
    scanf("%d", &number);

    while(number>0)
    {

        digit = number % 10 ;
        sum = sum + digit ;
        number = number / 10;
    }

    printf("sum is %d",sum);
    return 0;
}
```

**Question 2**

Not yet answered

Marked out of
20.00

Flag question

"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below;

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called calBonus() to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance)
```

```
int mark[30], i=0;  
int high,low;  
  
printf("Enter marks for each student: \n");  
for(i=0;i<30;i++)  
    scanf("%d", &mark );  
  
high = | ;  
low = | ;  
  
for(i=0;i<30;i++)  
{  
    if(mark[i]> )  
        high = mark[i];  
    if(mark[i]< )  
        low = mark[i];  
}  
  
printf("The highest mark is %d \n",high);  
printf("The lowest mark is %d \n",low);  
  
return 0;
```

Question 2

Not yet answered

Marked out of
5.00

Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = [ ] (1/[ ])3 + [ ] (([ ]) (x) + [ ]) (-x) /2, 2);
    return 0;
}
```

The following C program is used to read a positive number (*n*) greater than divisible by any number except 1 and itself, print it as "only divisible by *n* numbers". Complete the C program with correct values for the blank spaces.

Sample output

Enter a positive number: 3

only divisible by number 1 and 3

Enter a positive number: 17

only divisible by number 1 and 17

Enter a positive number: 10

divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1:\n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if (count > 2)
        printf("only divisible by %d numbers", count);
    else
        printf("divisible by %d numbers", count);
}
```



Following is a C program written for an online shopping cart system. A structure called **Product** is created to store details of the product. The program should read the following details of 3 products from the keyboard and store in an array of Product.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. According to the product availability, the following messages.

Sample output 1

Enter Product Id :3

Sorry! The product is not available.

Sample output 2

Enter Product Id:2

Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
struct Product{  
    int id;  
    char availability;  
    float price;  
};
```

```
int main(void)  
{  
    int   p[3];  
    char flag;  
    int i,pid;  
  
    for(i=0;i<3;i++){
```

```
float payment;  
printf("Enter discount amount for each shop \n");  
  
for(i=0;i<[ ] ;i++){  
    for(j=0;j<[ ] ;j++){  
        printf("Enter discount for shop%d on day%d: ",i+1,j+1);  
        scanf("%d", [ ]);  
    }  
}  
  
printf("Enter purchase value: ");  
scanf("%bf",&payment);  
  
printf("Enter shop number and day number that customer bought the product \n");  
printf("Shop number (1-4): ");  
scanf("%d",&s);  
printf("Day number (1-7) ");  
scanf("%d",&d);  
  
payment = (payment * [ ]) / 100;  
  
printf('Product payment after the discount :% .2f ',payment);  
  
return 0;
```

Hint : If current printing star is less than current printing row, * can be printed.

*
**


```
#include<stdio.h>
int main(void)
{
    int row=1, currentStar=0;

    while(row<=5){
        if(currentStar < row){
            printf("*");
            currentStar++;
        } else if( [ ] == row){
            printf(" * ");
            row++;
            currentStar = 0;
        }
    }
    return 0;
}
```

The equation for the normal (bell shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2}$$

Complete the following C program to calculate the value of y.

#include <math.h>

#include <math.h>

and math.h)

{

float pi = 3.1416;

float gamma = 4;

float mu = 10;

int n = 50;

float y = 1 / (gamma *

(n * pi) * (

(-1)

)²

((x - mu) / gamma)

exp(-0.5))

}

A shopping mall has 4 shops(1-4) and they are giving different discounts for each day in a week(1-7).

Example:

Monday (1)

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day.

If customer buy a product from this shopping mall, complete the following C code to display the payment.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;

    float payment;
    printf("Enter discount amount for each shop \n");

    for(i=0;i<4;i++)
        for(j=0;j<7;j++)
            printf("Enter discount for shop%d on day%d: ",i+1,j+1);
            scanf("%d",&d);
            discount[i][j]=d;
}
```

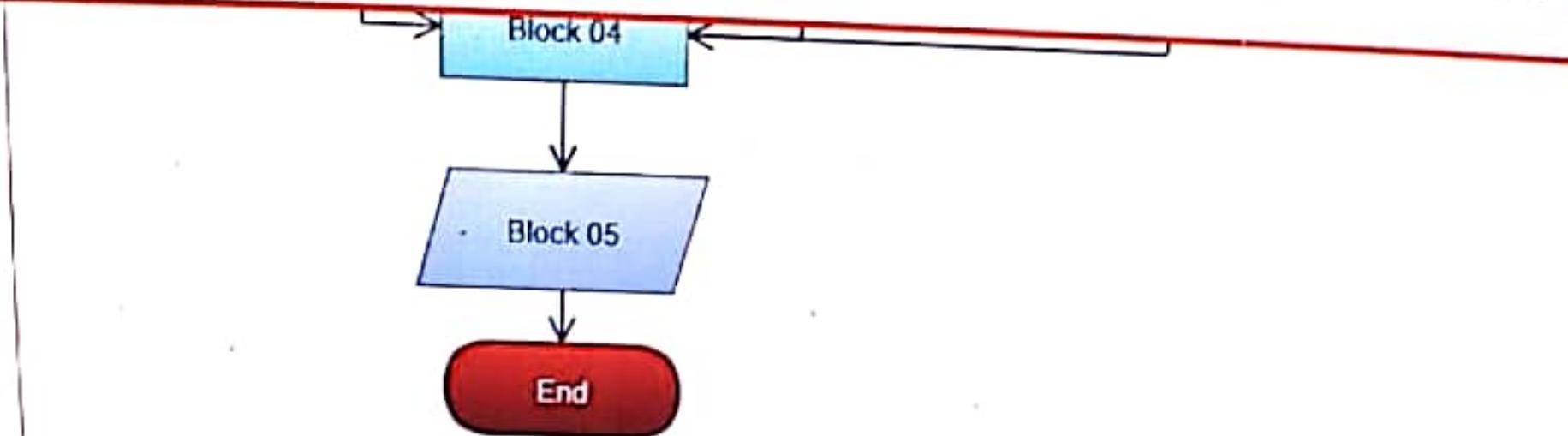
```
#include<stdio.h>
int main(void)
{
    int mark[30], i=0;
    int high,low;

    printf("Enter marks for each student. \n");
    for(i=0;i<30;i++)
        scanf("%d",
    }

    high = -1;
    low = 100;

    for(i=0;i<30;i++)
    {
        if(mark[i]> high)
            high = mark[i];
        if(mark[i]< low)
            low = mark[i];
    }

    printf("The highest mark is %d \n",high);
    printf("The lowest mark is %d \n",low);
}
```



Block 01 - hourlyrate*no of hours

Block 02 -hourlyrate*no of hours

Block 03 -hourly rate*no of hours

Block 04 -monthly payment= basic salary+ot

Block 05 -print payment]

Following C program is written to input set of cloth pieces count in an apparel company. Sentinel value for pieces count is -1. The cloth pieces count should be in between 500 and 1000 and if not, print an error message and continue with the next input. Finally, display the total number of cloth pieces produced by the company.

Complete the following C code by filling the missing statements / values.

```
#include<stdio.h>

int main(void)
{
    int pieces, total=0;
    printf("Enter cloth pieces count: ");
    scanf("%d",&pieces);

    while(pieces != -1)
    {
        if(pieces < 500 || pieces > 1000)
            printf("Number is invalid\n");
        else
            total += pieces;
        printf("Enter the next number: ");
        scanf("%d",&pieces);
    }
    printf("Total cloth pieces produced = %d",total);
}
```



JIT decided to use a text file called "vaccination.dat" to store the covid-19 vaccination details about their students. The file contains the student ID, vaccination type(Pfizer, Moderna, Sinopharm) and number of doses.
The file contain the data in the following format.

IT21209837 Pfizer 2

IT21902367 Moderna 1

IT21902817 Sinopharm 2

IT21903817 Sinopharm 2

IT21725612 Sinopharm 1

Write a C program to read the vaccination.dat file and count the number of students who has taken vaccination from each type. Write these details to another file called "counts.dat".

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if the two strings are equal.

Output file format

Pfizer 1

Sinopharm 3

Moderna 1

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

```
int main(void)
```

```
{ return 0; }
```

e X | O | i | A

Line 04 int i, n, sum = 1;

Line 05 printf("Please enter n value : ");

Line 06 scanf("%d", &n);

Line 07 for(i = 1; i <= n; i++)

Line 08 {

Line 09 if (i % 2 == 0) #Check whether remainder is 0 or not

Line 10 {

Line 11 sum += i;

Line 12 }

Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n);

Line 15 return 0;

Line 16 }

File Edit View Insert Cell Tools Help

Line Number	Corrected Statement
Line 7	for(i=1; i<=n; i++)

question 6

Not yet answered

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SUT decided to use a text file called "vaccination.dat" to store their covid-19 vaccination details about their students. The file contains the student ID, vaccination type) Pfizer, Moderna, Sinopharm and number of doses.

The file contain the data in the following format:

IT21209437 Pfizer 2

IT21902367 Moderna 1

IT21902817 Sinopharm 2

IT21903817 Sinopharm 2

IT21725612 Sinopharm 1

Write a C program to read the vaccination.dat file and count the number of students who has taken vaccination from each type. Write these details to another file called "counts.dat".

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if the two strings are equal.

Output file format

Pfizer 1

Sinopharm 3

Moderna 1



Write a C program to read a string from the keyboard to an array called **word** and if the word has even number of letters replace the middle letter of the word with a **space**. If the word has even number of letters, display the word with a space in the middle.

Example 1

Input : Apple

Output : Ap le

Example 2

Input : banana

output :banana

```
#include <stdio.h>
#include <string.h>
int main(void)
{
    char word[100];
    int i, n, mid;
    printf("Enter a word: ");
    gets(word);
    n = strlen(word);
    if (n % 2 == 0)
        mid = n / 2 - 1;
    else
        mid = n / 2;
    for (i = 0; i < n; i++)
        if (i == mid)
            word[i] = ' ';
        else
            word[i] = word[i];
    printf("%s", word);
    return 0;
}
```

Question 3

Not yet answered

Marked out of
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Flag question

"ABC" manufacturing company wants to keep track of their sales done by the distributors. The company wants to give a commission to the distributors according to the product they sell. The company mainly produce two products as shown in the table below.

Product	Commission percentage		
	Sales <200,000	Sales between 200,000 to 300,000	Sales >300,000
Bottled water (B)	10%	15%	20%
Fruit drinks (F)	15%	20%	25%

- a) Write a function called `calCommission()` to calculate the commission earned by taking the product type and the sales amount as parameters.

```
double calCommission( char type, float sales);
```

- b) Write a function called `testCalCommision()` which contains two assert statements to debug the above implemented function.

- c) The company wants to recognize the distributors according to their sales as shown in the table below.

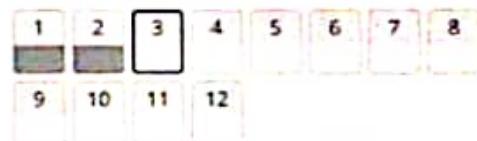


Sales	Award
>300,000	Gold
300,000 – 200,000	Silver
<200,000	No award

≡ Quiz navigation

Finish attempt ...

Time left 1:36:22



FEEDBACK

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A shopping mall has 4 shops(1-4) and they are giving different discounts for each day in a week(1-7).

Example:

Monday (1)

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**.

If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

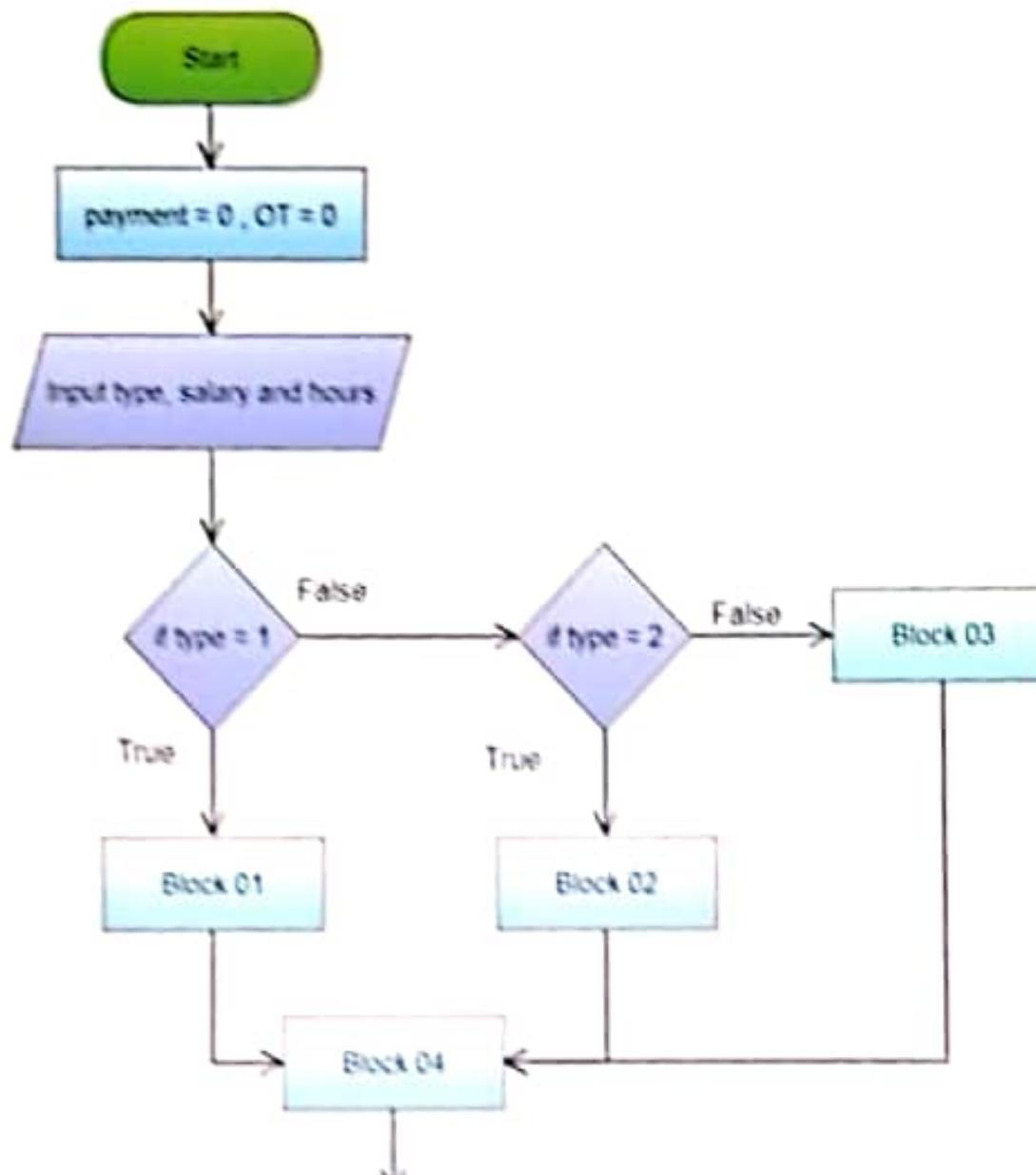
int main(void)
{
    int discount[4][7];
    int i,j,s,d;

    float payment;
    printf("Enter discount amount for each shop \n");

    for(i=0;i< | | | | | ;i++)
        for(j=0;j< | | | | | ;j++)
            for(s=0;s< | | | | | ;s++)
                for(d=0;d< | | | | | ;d++)
                    discount[i][j][s][d] = 0;
```

The following flowchart is drawn to calculate and display the monthly payment of an employee.

Write the relevant instructions (Block 01 - 05) in the given space.



```
char availability;
float price;
};

int main(void)
{
    struct product p[3];
    char flag;
    int i,pid;

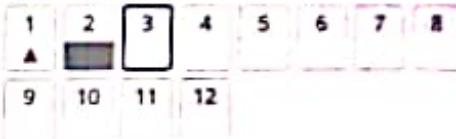
    for(i=0;i<3;i++){
        printf("Enter Product Id: ");
        scanf("%d",&p[i].id);
        printf("Enter Product availability: ");
        scanf(" %c",&p[i].availability);
        printf("Enter Product price: ");
        scanf("%f",&p[i].price);
    }

    printf("Enter product id that you wish to order: ");
    scanf("%d",&pid);

    for(i=0;i<3;i++){
        if(p[i].id == pid &
           p[i].availability
```

Finish attempt...

Time left 1:04:58



FEEDBACK

13

Product	Commission percentage		
	Sales <200,000	Sales between 200,000 to 300,000	Sales >300,000
Bottled water (B)	10%	15%	20%
Fruit drinks (F)	15%	20%	25%

- a) Write a function called `calCommission()` to calculate the commission earned by taking the product type and the sales amount as parameters.

```
double calCommission( char type, float sales);
```

- b) Write a function called `testCalCommision()` which contains two assert statements to debug the above implemented function.

- c) The company wants to recognize the distributors according to their sales as shown in the table below.

Sales	Award
>300,000	Gold
300,000 - 200,000	Silver
<200,000	No award

Write a function called `printAward()` to display a message indicating the award won by a distributor according to the sales done, by taking the sales amount as a parameter.

```
void printAward( float sales);
```

- d) In your program do the following :

- i) Call the `testCalCommision()` function.
- ii) Input the product type ('B' - for bottled water, 'F' - for fruit drinks) and the sales amount from the keyboard. If the user input an invalid

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y = (1 / (gama * [ ] (2 * pi))) * ([ ] (-1/[ ]) 2 * [ ] (((x - mu) / gama), 2)));
    return 0;
}
```

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and calculate the payment.

If customer buy a product from this shopping mall, complete the following C code to display the payment after applying the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;

    float payment;
    printf("Enter discount amount for each shop \n");

    for(i=0;i<4;i++){
        for(j=0;j<7;j++){
            printf("Enter discount for shop%d on day%d: ",i+1,j+1);
            scanf("%d", &d);
        }
    }

    printf("Enter purchase value: ");
    scanf("%f", &payment);
```

Question 9

Not yet answered

Marked out of
5.00

Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = (1/( )3) + (( ) x + (-x)/2, 2);
    return 0;
}
```

≡ Quiz navigation

Finish attempt

Time left 0:41:17



FEEDBACK

13

[Next page](#)

Question 5

Not yet answered

Marked out of
5.00

Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y =  (1/ )3) +  (( ( x ) +  (-x )/2, 2);
    return 0;
}
```

Write the output of following code segments.

1)

```
char ch = 70;  
  
int no = ch -1;  
  
printf("%c", no);
```

Note: ASCII value of A is 65

Output :

2)

```
printf("%d", 2 + (3 - 4 )+ 8 %5 * 4);
```

Output :

3)

```
int i = 0;  
while (i <= 99)  
{  
    i++;  
}  
printf("%d", i);
```

Output :

4)

```
char s[10];  
strcpy(s, "Hello");  
printf("%d", strlen(s));
```

Output :

5)



3

answered
1 out of

question

The following C program is used to read a positive number (*n*) greater than 1 from the keyboard, divisible by any number except 1 and itself, print it as "only divisible by number 1 and *n*". Otherwise numbers". Complete the C program with correct values for the blank spaces.

Sample output

Enter a positive number: 3
only divisible by number 1 and 3

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1:\n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for (i = 2; i < number; i++)
    {
        if (number % i == 0)
            count++;
    }
}
```



```
float total;

for(i=0;i<3;i++){
    printf("Enter appointment id: ");
    scanf("%d",&a[i].id);
    printf("Enter doctor name: ");
    scanf(" %s", &a[i].dName);
    printf("Enter hospital type: ");
    scanf(" %c",&a[i].hType);
    printf("Enter doctor fee: ");
    scanf("%f",&a[i].dFee);
}

printf("Appointment ID\tTotal Fee\n");
for(i=0;i<3;i++){
    if(a[i].hType == 'A')
        total = a[i].dFee + 0.2 * a[i].dFee;
    else
        total = a[i].dFee + 0.1 * a[i].dFee;

    printf("%d\t%.2f\n",i+1,total);
}
return 0;
}
```

Line Number	Corrected Statement
07	for (i=1;i<=n;i++)
09	if (i%2==0) // check whether remainder is 0 or not
14	printf("This summation of even numbers upto %d = %d",n,sum); I
11	sum += i;
04	int i, n, sum =0;

A structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments are taken from the keyboard and stored in an array of **Appointment**.

Appointment id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee	
A	20% of doctor fee	D
B	10% of doctor fee	E

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

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

```
struct Appointment{
```

```
    int id;
```

```
    char dName[30];
```

```
};
```

wered
of
estion

Write a C program to read a string from the keyboard to an array called **word** and if the word has odd number of letters, replace the middle letter of the word with a **space**. If the word has even number of letters, display the original word. If the word had odd number of letters, display the word with a space in the middle.

Example 1

Input : Apple

Output : Ap le

Example 2

Input : banana

output :banana

```
# include <stdio.h>
# include <string.h>
int main(void)
{
    -----
    -----
    -----
    return 0;
}
```

Following is a part of a C program to input 10 numbers from the keyboard store in the array. Next delete a specific index entered by the user.

example :

4	7	9	2	5	1	4	9	10	6
---	---	---	---	---	---	---	---	----	---

If Index is 3

New array

4	7	9	5	1	4	9	10	6	
---	---	---	---	---	---	---	----	---	--

Fill the following C code to do the above task.

```
#include<stdio.h>

int main(void)
{
    int arr[10],index,i;
    printf("Enter array values: \n");
    for(i=0;i<10;i++)
        scanf("%d",&arr[i]);
    printf("Enter the index of array to delete\n:");
}
```

```
x  
① ② printf("Enter discount amount for each shop \n");
```

```
for(i=0;i< 5 ;i++){  
    for(j=0;j< 8 ;j++){  
        printf("Enter discount for shop%d on day%d: ",i+1,j+1);  
        scanf("%d", &discount );  
    }  
}
```

```
printf("Enter purchase value: ");  
scanf("%f",&payment);
```



```
printf("Enter shop number and day number that customer bought the product \n");  
printf("Shop number (1-4) :");  
scanf("%d",&s);  
printf("Day number (1-7):");  
scanf("%d",&d);
```

```
payment | = (payment*
```

};

int main(void)

{

 struct

a[3];

 int i;

 float total;

 for(i=0;i<3;i++){

 printf("Enter appointment id: ");

 scanf("%d",&a[i].id);

 printf("Enter doctor name: ");

 scanf(" %s", &a [i].dName);

 printf("Enter hospital type: ");

 scanf(" %c",&a[i].hType);

 printf("Enter doctor fee: ");

 scanf("%f",&a[i].dFee);

}

 printf("Appointment ID\tTotal Fee\n");

 for(i=0;i<3;i++){

 if(a[i]. id == I)

 total = a[i].dFee + 0.2 * a[i].dFee;

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = [ ](1/[ ])3) + [ ](( [ ]( x ) + [ ]pow [ ](-x) )/2, 2);
    return 0;
```

The following C program is used to read a positive number (*n*) greater than 1 from the keyboard. If the number is not divisible except 1 and itself, print it as "only divisible by number 1 and *n*". Otherwise print as "divisible by *m* numbers". Complete the C correct values for the blank spaces.

Sample output

Enter a positive number: 3

only divisible by number 1 and 3

Enter a positive number: 17

only divisible by number 1 and 17

Enter a positive number: 10

divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count <= 2)
        printf("only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
}
```

A structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments should be input from the keyboard and store in an array of Appointment.

Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee
A	20% of doctor fee
B	10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

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

```
Appointment{
```

Question 1
Not yet answered
Marked out of
5.00
 Flag question

A shopping mall has 4 shops(1-4) and they are giving different discounts for each day in a week(1-7).

Example:

Monday (1)

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**.

If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;
```

≡ Quiz navigation

Finish attempt ...

Time left 1:43:31



FEEDBACK

13

Question 3

Not yet answered

Marked out of
5.00

Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

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

int main(void)
{
    int x = 4;
    float y = (1/( )3) + (( (x) + (-x))/2, 2);
    return 0;
}
```

QUIZ

Finish att.

Time left

1 2

9 10

FEEDBACK

13

Next page

printf("Enter discount amount for each shop \n");

```
for(i=0;i<5;i++) {
```

```
    for(j=0;j<8;j++) {
```

```
        printf("Enter discount for shop%d on day%d: ",j+1,j+1);
```

```
        scanf("%d", &discount);
```

```
}
```

```
}
```

```
printf("Enter purchase value: ");
```

```
scanf("%f", &payment);
```

```
printf("Enter shop number and day number that customer bought the product \n");
```

```
printf("Shop number (1-4) ");
```

```
scanf("%d", &s);
```

```
printf("Day number (1-7) ");
```

```
scanf("%d", &d);
```

```
payment = (payment * [redacted] / 100);
```

```
printf("Product payment after the discount :%.2f ", payment);
```

```
return 0;
```

```
}
```

```
int main(void)
{
    struct product product p[3];
    char flag;
    int i,pid;

    for(i=0;i<3;i++){
        printf("Enter Product Id: ");
        scanf("%d",&p[i].id);
        printf("Enter Product availability: ");
        scanf(" %c",&p[i].availability);
        printf("Enter Product price: ");
        scanf("%f",&p[i].price);
    }

    printf("Enter product Id that you wish to order: ");
    scanf("%d",&pid);

    for(i=0;i<3;i++){
        if(p[i]. id == pid ){
            flag =p[i].availability;
            break;
        }
    }
}
```

- c) The company wants to recognize the distributors according to their sales as shown in the table below.

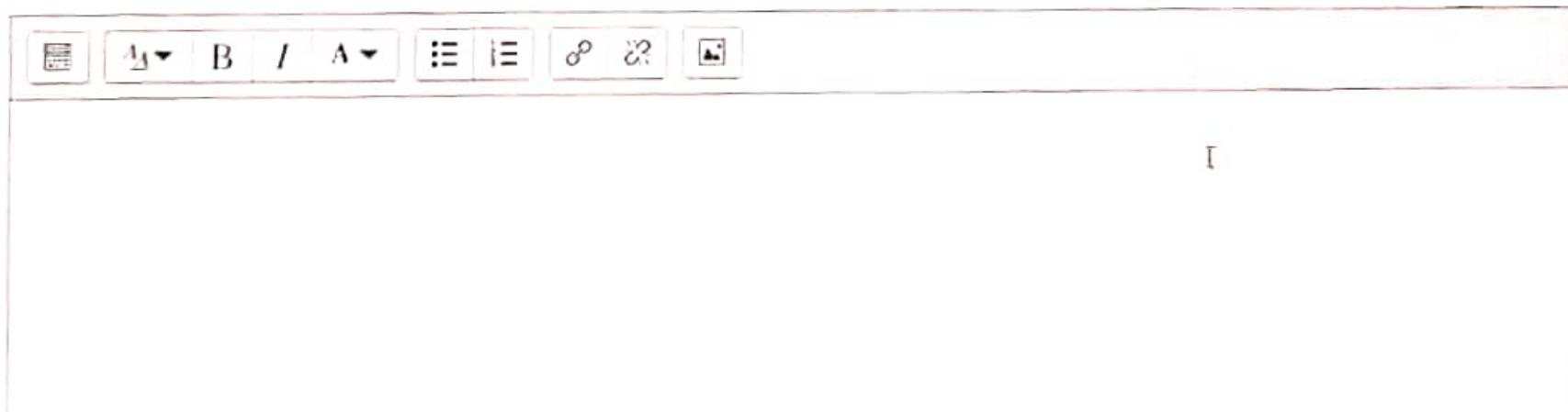
Sales	Award
>300,000	Gold
300,000 - 200,000	Silver
<200,000	No award

Write a function called printAward() to display a message indicating the award won by a distributor according to the sales done, by taking the sales amount as a parameter.

```
void printAward( float sales);
```

- d) In your program do the following :

- Call the **testCalCommision()** function.
- Input the product type ('B' - for bottled water, 'F' - for fruit drinks) and the sales amount from the keyboard. If the user input an invalid product type, display an error message. Calculate and display the commission earned by each distributor using the function implemented in part a) and display the awards if there are any. Repeat this for five distributors.



Following program is written by a student to display the summation
There are **five errors** in the program. Find the errors and write down

Line 01 #include<stdio.h>

Line 02 int main()

Line 03 {

Line 04 int i, n, sum = 1;

Line 05 printf("Please enter n value : ");

Line 06 scanf("%d", &n);

Line 07 for(i = 1; i <= n; i--)

Line 08 {

Line 09 if (i % 2 == 0) #Check whether remainder is 0 or not

Line 10 {

Line 11 sum += n;

Line 12 } 

Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n)

Line 15 return 0;

Line 16 }

```
printf("Enter purchase value: ");
scanf("%f",&payment);

printf("Enter shop number and day number that customer bought the product \n");
printf("Shop number (1-4) :");
scanf("%d",&s);
printf("Day number (1-7):");
scanf("%d",&d);
```

```
payment = (payment*
```

```
) / 100;
```

```
printf("Product payment after the discount :%.2f ".payment);
```

```
return 0;
```

```
}
```



on 2

It answered

2d out of

ag question

The following C program is written to find the sum of digits in an input number entered from the keyboard. Complete the correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum =  , digit;
    printf("Enter a number ");
    scanf("%d", &number);
    while(number>0)
    {
        digit =  %  ;
        sum = sum +  ;
        number = number  10;
    }
    printf("sum is %d",sum);
    return 0;
}
```

X



display the total number of cloth pieces produced by the company

Complete the following C code by filling the missing statements / values.

```
#include<stdio.h>

int main(void)
{
    int pieces, total=0;

    printf("Enter cloth pieces count: ");
    scanf("%d",&pieces);

    while( [ ] ){
        if(pieces < 500 [ ] pieces>1000){
            printf("Number is invalid! \n");
            printf("Enter the next number\n");
        }else
            total += [ ];
    }

    printf("Sum of cloth pieces count is %d",total);

    return 0;
}
```

Following is a C program written for an online shopping cart system. A structure called **Product** is created to store details of products. The program should read the following details of 3 products from the keyboard and store in a array of Product.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. According to the product availability display following messages.

Sample output 1

Enter Product Id :3

Sorry! The product is not available.

Sample output 2

Enter Product Id:2

Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
Product{  
    int id;  
    char availability;  
    float price;  
};
```

```
int main(void)  
{  
    _____ p[3];  
    char flag;  
    int i,pid;
```

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    int x = 4;
    float y = [REDACTED] {1/( } )3) + (( - (x) * (-x))/2, 2);
    return 0;
}
```

A structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments should be input from the keyboard and store in an array of **Appointment**.

Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee
A	20% of doctor fee
B	10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

4)

```
int x,y;  
  
x = 20;  
  
y = 15;  
  
if ( x > 15)  
  
    if (y > 20)  
  
        printf("%d", x);  
  
    else  
  
        printf("%d", y);
```

Output:

```
5)  
  
int k;  
for(i = 1; i <=20; i++)  
{  
    k = i;  
    i++;  
}  
printf("%d", k);
```

Output:

5.00

Flag question

There are five errors in the program. Find the errors and write them down.

```
Line 01 #include <stdio.h>
Line 02 int main()
Line 03 {
Line 04     int number, result = 0;
Line 05     printf("Please Enter ten Numbers\n");
Line 06     for(int i = 1; i <= 10; i++)
Line 07     {
Line 08         printf("Number %d = ", i);
Line 09         scanf("%d", &i);

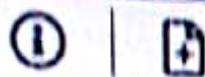
Line 10         if(number > 0)
Line 11         {
Line 12             continue;
Line 13         }

Line 14         result += number;
Line 15     }

Line 16     printf("Result = %f\n", result);
Line 17     return 0;
Line 18 }
```



X



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The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2}\left[\frac{x-\mu}{\sigma}\right]^2}$$

Complete the following C program to calculate the value of y.

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gamma = 4;
    float mu = 90;
    int x = 80;
    float y = 1 / (gamma * sqrt((2 * pi)) * exp(-1 / (2 * gamma) * (x - mu) * (x - mu) / gamma));
    return 0;
}
```

Write a C program to input two words from the keyboard into two arrays called Word1 and Word2 and exchange store the words in the arrays as following.

Input

Word1 = Hello , Word2 = World

After exchanging,

Word1 = World , Word2 = Hello

```
#include <stdio.h>
#include <string.h>
int main(void)
{
    char word1[20];
    char word2[20];
    printf("Enter first word: ");
    gets(word1);
    printf("Enter second word: ");
    gets(word2);
    strcpy(word1, word2);
    strcpy(word2, word1);
    printf("After exchange\n");
    printf("Word1 = %s\n", word1);
    printf("Word2 = %s\n", word2);
}
```

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y =( 1 / ( gama * sqrt( 2 * pi))) * ( epower( -1/( 2 * gama)) )2 * pow((( x - mu) / gama), 2));
    return 0;
}
```



Question 3

Not yet answered

Marked out of
20.00

Flag question

"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below.

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called `calBonus()` to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance)
```

- b) Write a function called `testCalBonus()` which contains the assert statements to debug the above implemented function.

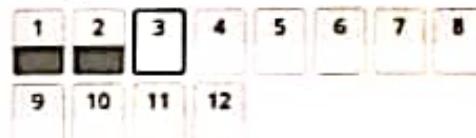
The bank has also decided to give a gift for the account holders according to the new account balance after adding the bonus. The table below shows the criteria for the gifts.

Account Type	Gift given for the new account balance (Rs)		
	Balance < 100,000	Balance between 100,000 - 200,000	Balance above 200,000
Fixed	No gift	Toaster	Blender
Savings	Tea set	Small laptop	Tv set

Quiz navigation

Finish attempt ...

Time left 1:07:16



FEEDBACK

13

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 1;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count == 2)
        printf("only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
    return 0;
}
```

Module

Sri Lanka Institute of Information Technology

Question 2
Not answered
1 out of 1
Flag question

Following is a C program written for an online shopping cart system. A structure called Product of products. The program should read the following details of 3 products from the keyboard.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. According to availability display following messages:

Sample output 1
Enter Product Id: 3
Sorry! The product is not available

Sample output 2
Enter Product Id: 2
Product is available

Complete the following C program with proper values for the blank spaces.

```
#include <stdio.h>

Product
{
    int id;
    char availability;
    float price;
}

int main()
{
    // Your code here
}
```

Question 3

Not yet answered

Marked out of
0.00

* Flag question

What are the outputs of the following statements?

1)

```
char ch = 'I';
```

```
int no = ch - 32;
```

```
printf("%c", no);
```

Note : ASCII value of a is 97.

ASCII value of A is 65.

Output :



2)

```
printf("%d", 10 + 3 - (4 + 8) - 6 % 4);
```

Output :

3)

```
I = 0;  
while (I < 200)  
{  
    I++;  
}  
printf("%d", I);
```

Output

4)



NetExam

Sri Lanka Institute of Information Technology

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or
stion

Due to the pandemic situation, most of the companies are concern about the transportation mode of their employees. A company conducted a survey and the results are stored in a text file called "**survey.dat**". The file contains the employee ID and their mode of transport (bus/train/private vehicle/walk).

The file contain the data in the following format.

```
101 bus
102 train
103 walk
104 private_vehicle
105 bus
```

Write a C program to read the **survey.dat** file, count the number of employees travel from each mode and write the result in a new file "**transportSummary.dat**" file.

Hint : Can use **strcmp(str1, str2)** to compare two strings. The function returns 0 if the two strings are equal.

transportSummary.dat file format

```
bus 2
train 1
walk 1
private_vehicle 1
```

```
Int discount[4][7];
Int i,j,s,d;

float payment;
printf("Enter discount amount for each shop \n");

for(i=0;i< [ ] ;i++){
    for(j=0;j< [ ] ;j++){
        printf("Enter discount for shop%d on day%d: ",i+1,j+1);
        scanf("%d", [ ]);
    }
}

printf("Enter purchase value: ");
scanf("%f",&payment);

printf("Enter shop number and day number that customer bought the product \n");
printf("Shop number (1-4):");
scanf("%d",&s);
printf("Day number (1-7):");
scanf("%d",&d);
```



"ABC" manufacturing company wants to keep track of their sales done by the distributors. The company wants to give a commission to the distributors according to the product they sell. The company mainly produce two products as shown in the table below.

Product	Commission percentage		
	Sales < 200,000	Sales between 200,000 to 300,000	Sales > 300,000
Bottled water (B)	10%	15%	20%
Fruit drinks (F)	15%	20%	25%

- a) Write a function called `calCommission()` to calculate the commission earned by taking the product type and the sales amount as parameters.

```
double calCommission( char type, float sales);
```

- b) Write a function called `testCalCommision()` which contains two assert statements to debug the above implemented function.

- c) The company wants to recognize the distributors according to their sales as shown in the table below.

Sales	Award
>300,000	Gold
300,000 - 200,000	Silver
<200,000	No award

Write a function called `printAward()` to display a message indicating the award won by a distributor according to the sales done, by sales amount as a parameter.

example :

4	7	9	2	5	1	4	9	10	6	
---	---	---	---	---	---	---	---	----	---	--

if index is 3

4

New array

4	7	9	5	1	4	9	10	6		
---	---	---	---	---	---	---	----	---	--	--

Fill the following C code to do the above task.

```
#include<stdio.h>

int main(void)
{
    int arr[10],index,i;
    printf("Enter array values: \n");
    for(i=0;i<10;i++)
        scanf("%d", &i );
    printf("Enter the index of array to delete:\n");
    scanf("%d",&index);

    while( _____ < 10)
    {
        arr = _____;
        _____ = _____;
    }
}
```

```
Line 04 int i, n, sum = 1;  
  
Line 05 printf("Please enter n value : ");  
Line 06 scanf("%d", &n);  
  
Line 07 for(i = 1; i <= n; i++)  
Line 08 {  
Line 09     if (i % 2 == 0) //Check whether remainder is 0 or not  
Line 10     {  
Line 11         sum += n;  
Line 12     }  
Line 13 }  
  
Line 14 printf("The summation of even numbers upto %d = %d", n);  
  
Line 15 return 0;  
Line 16 }
```



Line Number	Corrected Statement

tion 11

yet answered

1 out of
0

Flag question

Write a C program to read a string from the keyboard to an array called **word** and if the word has odd letter of the word with a **space**. If the word has even number of letters, display the original word. If the word has odd number of letters, display the word with a space in the middle.

Example 1

Input : Apple

Output : Ap le

Example 2

Input : banana

output : banana

```
# include <stdio.h>
# include <string.h>
int main(void)
{
    char word[100];
    int i, n = 0;
    for (i = 0; word[i] != '\0'; i++)
        n++;
    if (n % 2 == 0)
        printf("%s", word);
    else
        printf("%c ", word[0]);
    for (i = 1; i < n - 1; i++)
        printf("%c", word[i]);
    printf("%c", word[n - 1]);
    return 0;
}
```



Marked out of
5.00
 Flag question

Only divisible by number 1 and itself otherwise prints as "divisible by numbers". Complete the C program with correct values for the blank spaces.

Sample output

Enter a positive number: 3
only divisible by number 1 and 3

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d" &number);
    if ( number <= 1)
        return -1;
    for(i=1; i<number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count > 2)
        printf("only divisible by number 1 and itself\n");
    else
        printf("divisible by %d numbers\n");
```

"ABC" manufacturing company wants to keep track of their sales done by the distributors. The company wants to give different commission to the distributors according to the product they sell. The company mainly produce two products. The details are shown in the table below.

Product	Commission percentage		
	Sales < 200,000	Sales between 200,000 to 300,000	Sales > 300,000
Bottled water (B)	10%	15%	20%
Fruit drinks (F)	15%	20%	25%

- a) Write a function called `calCommission()` to calculate the commission earned by taking the product type and sales amount as parameters.

```
double calCommission( char type, float sales);
```

- b) Write a function called `testCalCommission()` which contains two assert statements to debug the above function.

- c) The company wants to recognize the distributors according to their sales as shown in the table below.

question 3

not yet answered

Marked out of
1.00

Flag question

Due to the pandemic situation, most of the companies are concern about the transportation mode of their employees. ABC company conducted a survey and the results are stored in a text file called "**survey.dat**". The file contains the employee number, mode of transport (bus/train/private vehicle/walk).

The file contain the data in the following format.

- 101 bus
- 102 train
- 103 walk
- 104 private_vehicle
- 105 bus

Write a C program to read the survey.dat file, count the number of employees travel from each mode and write the counts to the "**transportSummary.dat**" file.

Hint : Can use `strcmp(str1, str2)` to compare two strings. The function returns 0 if the two strings are equal.

transportSummary.dat file format

bus 2
train 1
walk 1
private_vehicle 1

Line 15 }
Line 16 printf("Result = %d\n", result);
Line 17 return 0;
Line 18 }

Line Number | Corrected Statement

Line Number	Corrected Statement
4	int i;
9	scanf("%d", &number);
14	result *= number;
16	printf("Result = %d\n", result);



```
scanf("%s", &a[i].dName);
printf("Enter hospital type: ");
scanf("%c", &a[i].hType);
printf("Enter doctor fee: ");
scanf("%f", &a[i].dFee);
}

printf("Appointment ID\tTotal Fee\n");
for(i=0;i<3;i++){
    if(a[i].hType == 'P')
        total = a[i].dFee + 0.2 * a[i].dFee;
    else
        total = a[i].dFee + 0.1 * a[i].dFee;

    printf("%d\t%.2f\n", i+1, total);
}
return 0;
```

≡ Quiz na

Finish attempt

Time left 1:45:4

1	2	3
8	9	10

FEEDBACK

13

A shopping mall has 4 shops(1-4) and they are giving different discounts for each day in a week(1-7).

Example:

Monday (1)

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**.

If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;
```

The following C program is written to find the sum of digits in an input number entered from the correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = [REDACTED], digit;

    printf("Enter a number ");
    scanf("%d", &number);

    while(number>0)
    {
        digit = [REDACTED] % [REDACTED];
        sum = sum + [REDACTED];
        number = number [REDACTED] 10;
    }

    printf("sum is %d",sum);

    return 0;
}
```

Question 5

Not yet answered

Marked out of
20.00

Flag question

SLIIT decided to use a text file called "vaccination.dat" to store the covid-19 vaccination details of students. The file contains the student ID, vaccination type(Pfizer, Moderna, Sinopharm) of the students. The file contain the data in the following format.

IT21209837 Pfizer 2

IT21902367 Moderna 1

IT21902817 Sinopharm 2

IT21903817 Sinopharm 2

IT21725612 Sinopharm 1

Write a C program to read the vaccination.dat file and count the number of students who received each type of vaccination. Write these details to another file called "counts.dat".

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if the two strings are equal.

Output file format

Pfizer 1

Sinopharm 3

Moderna 1



A

B

I



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

```
int main()
```

Following is a C program written for an online shopping cart system. A structure of products. The program should read the following details of 3 products from the Product.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the key availability display following messages.

Sample output 1

Enter Product Id :3

Sorry! The product is not available.

Sample output 2

Enter Product Id:2

Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
struct Product{  
    int id;  
    char availability;  
    float price;  
};
```

```
int main(void)
```

```
{  
    /* Your code here */
```

```
#include <stdio.h>

Struct Appointment{
```

```
    int id;
    char dName[30];
    char hType;
    float dFee;
```

```
};
```

```
int main(void)
```

```
{
```

```
    struct Appointment a[3];
```

```
    int i;
    float total;
```

```
    for(i=0;i<3;i++){
        printf("Enter appointment id: ");
        scanf("%d",&a[i].id);
        printf("Enter doctor name: ");
        scanf(" %s", &a[i].dName);
        printf("Enter hospital type: ");
        scanf(" %c",&a[i].hType);
        printf("Enter doctor fee: ");
        scanf("%f",&a[i].dFee);
```

```
}
```

QUESTION 1

Not yet answered

Marked out of
5.00

Flag question

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y = (1 / (gama * sqrt(2 * pi))) * (2.718 (-1/( )) 2 * gama (((x - mu) / gama), 2)));
    return 0;
}
```



```

for(i=0; i<3; i++) {
    printf("Enter appointment id: ")
    scanf("%d", &a[i].id);
    printf("Enter doctor name: ")
    scanf("%s", a[i].dName);
    printf("Enter hospital type: ")
    scanf("%c", &a[i].hType);
    printf("Enter doctor fee: ")
    scanf("%f", &a[i].dFee);
}

printf("Appointment ID\tTotal Fees");
for(i=0; i<3; i++) {
    printf("\n%d\t\t\t", a[i].id);
    total = a[i].dFee + 0.2 * a[i].dFee;
    if(a[i].hType == 'P')
        total += a[i].dFee * 0.1 * a[i].dFee;
}
printf("\nTotal fees: %f", total);
}
return 0;

```



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Sri Lanka Institute of Information Technology

A structure called **Appointment** is created to store details of doctor appointments. The following doctor appointments should be input from the keyboard and store in an array of Appointment.

Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee
A	20% of doctor fee
B	10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

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



Question 1

Not yet answered

Marked out of
5.00 Flag question

A structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments should be input from the keyboard and store in an array of Appointment.

Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee
A	20% of doctor fee
B	10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

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

```
Appointment{
```

**Question 1**

Not yet answered

Marked out of
1.00 Flag question

The following C program is used to read a positive number (*n*) greater than 1 from the keyboard. If the number is not divisible by any number except 1 and itself, print it as "only divisible by number 1 and *n*". Otherwise print as "divisible by *m* numbers". Complete the C program with correct values for the blank spaces.

Sample output:

Enter a positive number: 3

only divisible by number 1 and 3

Enter a positive number: 17

only divisible by number 1 and 17

Enter a positive number: 10

divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int n, i, count = 0;
    printf("Enter a positive number greater than 1: ");
    scanf("%d", &n);
    if (n <= 1)
        return 0;
    for(i = 2; i <= n; i++)
    {
        if (n % i == 0)
            count++;
    }
    if (count == 1)
        printf("only divisible by number 1 and %d", n);
    else
        printf("divisible by %d numbers", count);
}
```

```
**  
***  
****  
*****
```

```
#include<stdio.h>  
  
int main(void)  
{  
    int row=1, currentStar=0;  
  
    while(row<=5){  
        if(currentStar == row){  
            printf("*");  
            | |++;  
        }else if( currentStar == row){  
            printf(" ");  
            row++;  
            currentStar = 0;  
        }  
    }  
    return 0;  
}
```

Following C program uses to create a 2D array with the values as below.

```
1 4 5  
3 2  
8 5 9
```

Complete the following C code to do the following.

1. Find the sum of values on the following line highlighted in yellow.
2. Print the array with '*' for the upper triangular part.

```
1 • •  
3 2 •  
8 5 9
```

Sample output

Sum is 12

```
1 * *  
3 2 *  
8 5 9
```

Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called **calBonus()** to calculate the bonus given for an account by sending the account type and balance as parameters.

```
float calBonus( char accType, float accBalance)
```

- b) Write a function called **testCalBonus()** which contains the assert statements to debug the above implementation.

The bank has also decided to give a gift for the account holders according to the new account balance as shown below. The table below shows the criteria for the gifts.



Account Type	Gift given for the new account balance (Rs)		
	Balance < 100,000	Balance between 100,000 - 200,000	Balance above 200,000
Fixed	No gift	Toaster	Blender
Savings	No gift	Wall clock	Tea set

- c) Write a function called **displayGift()** to display the gifts obtained by sending the account type and the account balance as parameters.

```
void displayGift( char accType, float accBalance)
```

- d) In your program do the following :

i) Call the **testCalBonus()** function.

ii) Input the account type ('f' for Fixed account, 's' for Savings account) for 5 customers and their account balance. Calculate the bonus and the gift obtained using the above two functions implemented in part a) and part c). If the account type is invalid, display an error message.

Question 3

Not yet answered

Marked out of
20.00

Flag question

"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below:

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called `calBonus()` to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance )
```

- b) Write a function called `testCalBonus()` which contains the assert statements to debug the above implemented function.

The bank has also decided to give a gift for the account holders according to the new account balance after adding the

Sample output

Enter a positive number: 3
only divisible by number 1 and 3

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 1)
        {
            count++;
        }
    }
    if(count <= 2)
        printf("only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
}
return 0;
```

① ②

Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called **calBonus()** to calculate the bonus given for an account by sending the account type as parameters.

```
float calBonus( char accType, float accBalance )
```

- b) Write a function called **testCalBonus()** which contains the assert statements to debug the above implementation.

The bank has also decided to give a gift for the account holders according to the new account balance after adding the bonus. The table below shows the criteria for the gifts.

L

Account Type	Gift given for the new account balance (Rs)		
	Balance < 100,000	Balance between 100,000 - 200,000	Balance above 200,000
Fixed	No gift	Toaster	Blender
Savings	No gift	Wall clock	Tea set

- c) Write a function called **displayGift()** to display the gifts obtained by sending the account type and the new balance.

```
void displayGift( char accType, float accBalance )
```

- d) In your program do the following:

i. Call the **testCalBonus()** function

ii. Input the account type ('f' for Fixed account, 's' for Savings account) for 5 customers and their new balance after bonus and the gift obtained using the above two functions implemented in part a) and part c). If the user input is invalid, display an error message.

Question 1

Not yet answered

Marked out of
5.00

Flag question

Following is a C program written for an online shopping cart system. A structure called **Product** is created to store details of products. The program should read the following details of 3 products from the keyboard and store in a array of Product.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. According to the product availability display following messages.

Sample output 1

Enter Product Id :3
Sorry! The product is not available.

Sample output 2

Enter Product Id:2
Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
    |Product{  
    int id;  
    char availability;  
    float price;  
};  
  
int main(void)  
{  
    |           p[];  
    char flag;
```

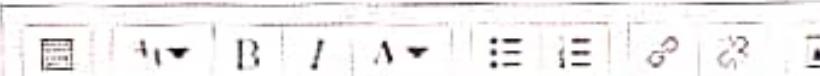


```
Line 08 printf("Number %d = ", l);
Line 09 scanf("%d", &l);

Line 10 if(number > 0)
Line 11 {
Line 12     continue;
Line 13 }

Line 14 result += number;
Line 15 )

Line 16 printf("Result = %f\n", result);
Line 17 return 0;
Line 18 }
```



Line Number	Corrected Statement



3)

```
int i = 0;
while (i <= 99)
{
    i++;
}
printf("%d", i);
```

Output : 100

4)

```
char s[10];
strcpy(s, "Hello");
printf("%d", strlen(s));
```

Output : 5

5)

```
char letter = 'C';
if (letter == 'V' || letter == 'v')
```

```
    printf("Vanilla\n");
```

```
else if (letter == 'C' && letter == 'c')
```

```
    printf("Chocolate\n");
```

```
else
```

```
    printf("Other\n");
```

Output : Other

Question 1
Not yet answered
Marked out of 5.00
 Flag question

A structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments should be input from the keyboard and store in an array of Appointment.

Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type Hospital fee.

- A 20% of doctor fee
- B 10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

```
#include <stdio.h>

Appointment()
{
    int id;
    char dName[30];
    char hType;
    float dFee;
```

≡ Quiz navigation

Finish attempt ...

Time left 1:51:02

1 2 3 4 5 6

9 10 11 12

FEEDBACK

13

Line 01 #include<stdio.h>
Line 02 int main()
Line 03 {
Line 04 int i, n, sum = 1;

Line 05 printf("Please enter n value : ");
Line 06 scanf("%d", &n);

Line 07 for(i = 1; i <= n; i--)
Line 08 {
Line 09 if (i % 2 == 0) #Check whether remainder is 0 or not
Line 10 {
Line 11 sum += n;
Line 12 }
Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n);

Line 15 return 0;
Line 16 }



Line Number	Corrected Statement

Question 3

Not yet answered

Marked out of
5.00

Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y =  (1/ )3) +  (( ( x ) +  (-x ))/2, 2);
    return 0;
}
```





Question 6
marks available: 1
Grade available:
Total marks: 1
Type question

A structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments should be input from the keyboard and store in an array of **Appointment**.

Appointment Id	Doctor Name	Doctor Fee(R)	Hospital Type
1	Ganesh	1500.00	A
2	Karan	2000.00	B
3	Suman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee
A	20% of doctor fee
B	10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

variable definition:

```
#include <stdio.h>  
  
struct Appointment {  
    int id;  
    char name[10];  
    float type;  
    float fee;  
};
```

5

answered
out of
question

Write the output of following code segments.

1)

```
char ch = 70;  
  
int no = ch - 1;  
  
printf("%c", no);
```

Note: ASCII value of A is 65

Output :

2)

```
printf("%d", 2 + (3 - 4) + 8 % 5 * 4);
```

Output :

3)

```
int i = 0;  
while (i <= 99)  
{  
    i++;  
}  
printf("%d", i);
```

Output

4)

```
char arr[10];
```

The following C program is written to find the sum of digits of a number. Fill the correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = 0, digit;

    printf("Enter a number ");
    scanf("%d", &number);

    while(number>0)
    {

        digit = number % 10;
        sum = sum + digit;
        number = number / 10;
    }

    printf("sum is %d",sum);

    return 0;
}
```



Question 11

Not yet answered

Marked out of
5.00

Flag question

Following program is written by a student to display the summation of even numbers from 1 to n.

There are **five errors** in the program. Find the errors and write down the **corrected statements** in given space.

Line 01 #include<stdio.h>

Line 02 int main()

Line 03 {

Line 04 int i, n, sum = 1;

Line 05 printf("Please enter n value : ");

Line 06 scanf("%d", &n);

Line 07 for(i = 1; i <= n; i-)

Line 08 {

Line 09 if (i % 2 == 0) #Check whether remainder is 0 or not

Line 10 {

Line 11 sum += n;

Line 12 }

Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n);

Line 15 return 0;

Line 16 }

3)

```
int i = 0;
while (i <= 99)
{
    i++;
}
printf("%d", i);
```

Output :

4)

```
char s[10];
strcpy(s, "Hello");
printf("%d", strlen(s));
```

Output :

5)

```
char letter = 'C';
if (letter == 'V' || letter == 'v')
    printf("Vanilla\n");
else if (letter == 'C' && letter == 'c')
    printf("Chocolate\n");
else
    printf("Other\n");
```

Output :

Following program is written by a student to display the multiplication of some numbers. The program takes ten user input numbers and calculates the multiplication of positive numbers and skip negative numbers.

There are **five errors** in the program. Find the errors and write down the **corrected statements** in given space.

Line 01 #include <stdio.h>

Line 02 int main()

Line 03 {

Line 04 int number, result = 0;

Line 05 printf("Please Enter ten Numbers\n");

Line 06 for(int i = 1; i <= 10; i++)

Line 07 {

Line 08 printf("Number %d = ", i);

Line 09 scanf("%d", &i);

Line 10 if(number > 0)

Line 11 {

Line 12 continue;

Line 13 }

Line 14 result += number;

Line 15 }

Line 16 printf("Result = %f\n", result);

Line 17 return 0;

.....

Following program is written by a student to display the multiplication of some numbers. The program takes ten user input numbers and calculates the multiplication of positive numbers and skip negative numbers.

There are five errors in the program. Find the errors and write down the corrected statements in given space.

Line 01 #include <stdio.h>

Line 02 int main()

Line 03 {

Line 04 int number, result = 0;

Line 05 printf("Please Enter ten Numbers\n");

Line 06 for(int i = 1; i <= 10; i++)

Line 07 {

Line 08 printf("Number %d = ", i);

Line 09 scanf("%d", &i);

Line 10 if(number > 0)

Line 11 {

Line 12 continue;

Line 13 }

Line 14 result *= number;

 }



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Not yet answered

Marked out of
5.00

Flag question

Hint : if current printing star is less than current printing row * can be printed

*
**


```
#include<stdio.h>
int main(void)
{
    int row=1, currentStar=0;
    while(row<=5)
    {
        currentStar = row;
        printf("%*c", currentStar, '*');
        currentStar = 2*row;
        printf("%*c", currentStar, '*');
        row++;
    }
}
```

Structure called **Appointment** is created to store details of doctor appointments. The following details for 3 appointments should be input from the keyboard and store in an array of Appointment.

Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

- Hospital type
- A Hospital fee
 - B 20% of doctor fee
 - B 10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following.

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

```
#include <stdio.h>

Appointment{
    int id;
    char dName[30];
    char hType;
    float dFee;
}
```



The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y .

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y = 1 / (gama * [red box] (2 * pi)) * ([red box] (-1/[red box]) 2 * [red box] (((x - mu) / gama), 2)));
    return 0;
}
```

```
#include <stdio.h>

Appointment{
    int id;
    char dName[30];
    char hType;
    float dFee;
}

int main(void)
{
    Appointment a[3];
    int i;
    float total;

    for(i=0;i<3;i++){
        printf("Enter appointment id: ");
        scanf("%d",&a[i].id);
        printf("Enter doctor name: ");
        scanf(" %s", &a[i].dName);
        printf("Enter hospital type: ");
        scanf(" %c", &a[i].hType);
        printf("Enter doctor fee: ");
        scanf("%f", &a[i].dFee);
    }

    printf("Appointment ID\tTotal Fee\n");
    for(i=0;i<3;i++){

```

Question 7

Not yet answered

Marked out of
5.00

Flag question

Following C program uses to create a 2D array with the values as below.

1	4	5
3	2	
8	5	9

Complete the following C code to do the following.

1. Find the sum of values on the following line highlighted in yellow.
2. Print the array with '*' for the upper triangular part.

1	*	*
3	2	*
8	5	9

Sample output

Sum is 12

1	*	*
3	2	*
8	5	9

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

Due to the pandemic situation, most of the companies are concern about the transportation mode of their employees. ABC company conducted a survey and the results are stored in a text file called "survey.dat". The file contains the employee number, mode of transport (bus/train/private vehicle/walk).

The file contain the data in the following format.

101 bus
102 train
103 walk
104 private vehicle
105 bus

Write a C program to read the survey.dat file, count the number of employees travel from each mode and write the counts to the "transportSummary.dat" file.

Hint : Can use `strcmp(str1; str2)` to compare two strings. The function returns 0 if the two strings are equal.

transportSummary.dat file format

bus ?

Note: ASCII value of A is 65

Output : E

2)

```
printf("%d", 2 + (3 * 4 )+ 8 %5 * 4);
```

Output : 13

3)

```
int i = 0;  
while (i <= 99)  
{  
    i++;  
}
```

```
printf("%d", i);
```

Output : 100

4)

```
char s[10];  
strcpy(s, "Hello");  
printf("%d", strlen(s));
```

Output : 5

5)

```
char letter = 'C';  
if (letter == 'V' || letter == 'v')  
    printf("Vanilla\n");  
else if (letter == 'C' && letter == 'c')  
    printf("Chocolate\n");  
else  
    printf("Unknown");
```



```
doubleCommission(char type, float sales)
{
    double com = 0;

    if (type == B)
    {
        if (sales < 200000)
            com = 0.1 * sales;
        else if (sales >= 200000 && sales < 300000)
            com = 0.15 * sales;
        else
            com = 0.2 * sales;
    }
    else if (type == F)
    {
        if (sales < 200000)
            com = 0.15 * sales;
        else if (sales >= 200000 && sales < 300000)
            com = 0.2 * sales;
        else
            com = 0.25 * sales;
    }
    return com;
}
```

The following C program is used to read a positive number (n) greater than 1 from the user. If the number is divisible by any number except 1 and itself, print it as "only divisible by number m numbers". Complete the C program with correct values for the blank spaces.

Sample output

Enter a positive number: 3

only divisible by number 1 and 3

Enter a positive number: 17

only divisible by number 1 and 17

Enter a positive number: 10

divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1:\n");
    scanf("%d", &number);
    if ( number <= 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count >= 2)
        printf("only divisible by number 1 and %d\n", count);
```



Appointment ID	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	
2	Kasun	2000.00	A
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type

A Hospital fee

B 20% of doctor fee

10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.

```
#include <stdio.h>

struct Appointment{
    int id;
    char dName[30];
    char hType;
    float dfFee;
};

int main(void)
{
    char a[3];
    int i;
```

TURBO

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Question 2
Authoring is a part of a program or code to generate the executable code in the binary form directly or otherwise to a specific code required by the user.

example:

1 2 3 4 5 6 7 8 9 10 11 12

Profile is 3

Score 45%

1 2 3 4 5 6 7 8 9 10 11 12

Fill the following C code to fit the above requirement.

Final Authoring is:

1. main() {

```
    int arr[10], i, max, n;
```

printf("Enter array elements: ");

```
    for(i=0; i<n; i++)
```

scanf("%d", &arr[i]);

Quiz navigation

Previous question

Time left 1:29:14

1 2 3 4 5 6 7 8
9 10 11 12

Final answer

12

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 1;
    printf("Enter a positive number greater than 1..in");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count > 2)
        printf("Only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
    return 0;
}
```





```
char word1[5];
```

```
char word2[5];
```

I.

```
printf("Enter word1 : ");
```

```
scanf("%s", word2[5]);
```

```
printf("Enter word2 : ");
```

```
scanf("%s", word1[5]);
```

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y = (1 / (gama * (2 * pi))) * ( (-1/( )) 2 * (((x - mu) / gama), 2)))
    return 0;
}
```

Following is a C program written for an online shopping cart system. A structure called **Product** program should read the following details of 3 products from the keyboard and store in a array.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. According to the availability, the following messages.

Sample output 1

Enter Product Id :3

Sorry! The product is not available.

Sample output 2

Enter Product Id:2

Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
struct Product{  
    int id;  
    char availability;  
    float price;  
};  
  
int main(void)  
{  
    struct Product p[3];  
    char flag;  
    int i,pid;  
  
    for(i=0;i<3;i++)  
        printf("Enter Product Id: ");
```

Write the following C program to implement the above system.

```
#include <stdio.h>

Appointment{
    int id;
    char dName[30];
    char hType;
    float dFee;
};

int main(void)
{
    Appointment a[3];
    int i;
    float total;

    for(i=0;i<3;i++){
        printf("Enter appointment id: ");
        scanf("%d",&a[i].id);
    }
}
```

Question 3

Not yet answered

Marked out of
20.00

Flag question

"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below:

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called `calBonus()` to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance)
```

- b) Write a function called `testCalBonus()` which contains the assert statements to debug the above implemented function.

The bank has also decided to give a gift for the account holders according to the new account balance after adding the bonus. The table below shows the criteria for the gifts.

Following program is written by a student to display the summation of even numbers from 1 to n.

There are **five errors** in the program. Find the errors and write down the **corrected statements** in given space.

Line 01 #include<stdio.h>

Line 02 int main()

Line 03 {

Line 04 int i, n, sum = 1;

Line 05 printf("Please enter n value : ");

Line 06 scanf("%d", &n);

Line 07 for(i = 1; i <= n; i++)

Line 08 {

Line 09 if (i % 2 == 0) #Check whether remainder is 0 or not

Line 10 {

Line 11 sum += n;

Line 12 }

Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n);

Line 15 return 0;

Line 16 }



What are the outputs of the following statements?

1)

```
char ch = 'I';
```

```
int no = ch - 32;
```

```
printf("%c", no);
```

Note : ASCII value of a is 97.

ASCII value of A is 65.

Output :

2)

```
printf("%d", 10 + 3 - (4 + 8) - 6 % 4);
```

Output : 13

3)

```
i = 0;
```

```
while(i < 200)
```

```
{
```

```
--
```

Following is a C program written for an online shopping cart system. A structure of products. The program should read the following details of 3 products from the Product.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. If the availability display following messages.

Sample output 1

Enter Product Id :3

Sorry! The product is not available.

Sample output 2

Enter Product Id:2

Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
    Product{  
        int id;  
        char availability;  
        float price;  
    };  
  
    int main(void)  
    {
```



- b) Write a function called **testCalBonus()** which contains the assert statements to debug the above implemented function.

The bank has also decided to give a gift for the account holders according to the new account balance after adding the bonus. The table below shows the criteria for the gifts.

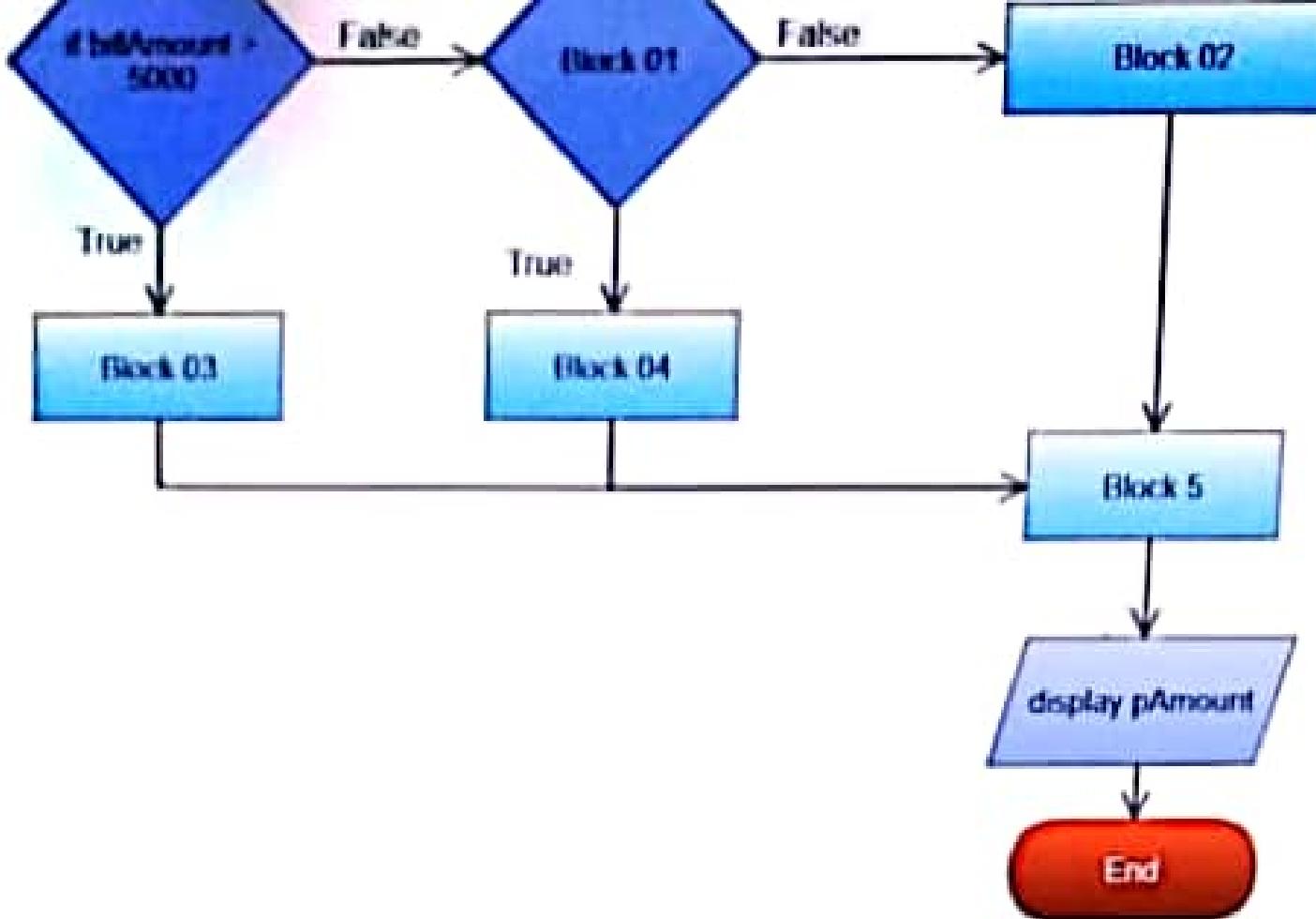
Account Type	Gift given for the new account balance (Rs)		
	Balance <100,000	Balance between 100,000 - 200,000	Balance above 200,000
Fixed	No gift	Toaster	Blender
Savings	No gift	Wall clock	Tea set

- c) Write a function called **displayGift()** to display the gifts obtained by sending the account type and the new balance as parameters.

```
void displayGift ( char accType, float accBalance )
```

- d) In your program do the following:

- i) Call the **testCalBonus()** function.
- ii) input the account type ('F' - for Fixed account, 'S' - for Savings account) for 5 customers and display the new balance after bonus and the gift obtained using the above two functions implemented in part a) and part b).
- iii) if the user input a invalid account type, display an error message.



File Edit View Insert Tools Help

Block 01 :
Block 02 :
Block 03 :
Block 04 :
Block 05 :

The following C program is used to read a positive number (n) greater than 1 from the keyboard. If the number is divisible by any number except 1 and itself, print it as "only divisible by number 1 and n". Otherwise print as "divisible by numbers". Complete the C program with correct values for the blank spaces.

Sample output

Enter a positive number: 3

only divisible by number 1 and 3

Enter a positive number: 17

only divisible by number 1 and 17

Enter a positive number: 10

divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<number; i++)
    {
        if(number % i == 0)
            count++;
    }
}
```

Write a C program to read a string from the keyboard to an array called **word** and if the word has odd number of letter of the word with a **space**. If the word has even number of letters, display the original word. If the word had 1 display the word with a space in the middle.

Example 1

Input : Apple

Output : Ap le

Example 2

Input : banana

output :banana

```
# include <stdio.h>
# include <string.h>
int main(void)
{
    _____
    _____
    _____
    _____
    return 0;
}
```



Following program is written by a student to display the multiplication of some numbers. The program takes input numbers and calculates the multiplication of positive numbers and skip negative numbers.

There are **five errors** in the program. Find the errors and write down the **corrected statements** in given space.

```
Line 01 #include <stdio.h>
Line 02 int main()
Line 03 {
Line 04     int number, result = 0;
Line 05     printf("Please Enter ten Numbers\n");
Line 06     for(int i = 1; i <= 10; i++)
Line 07     {
Line 08         printf("Number %d = ", i);
Line 09         scanf("%d", &i);

Line 10         if(number > 0)
Line 11         {
Line 12             continue;
Line 13         }

Line 14         result += number;
Line 15     }

Line 16     printf("Result = %f\n", result);
Line 17     return 0;
```

Write a C program to read a string from the keyboard to an array called `str`. Then reverse the string and display it. If the word has even number of letters, insert a space between every two letters. If the word has odd number of letters, insert a space before the last letter. If the word has one letter, display the word with a space in the middle.

Example 1

Input : Apple 

Output : Ap le

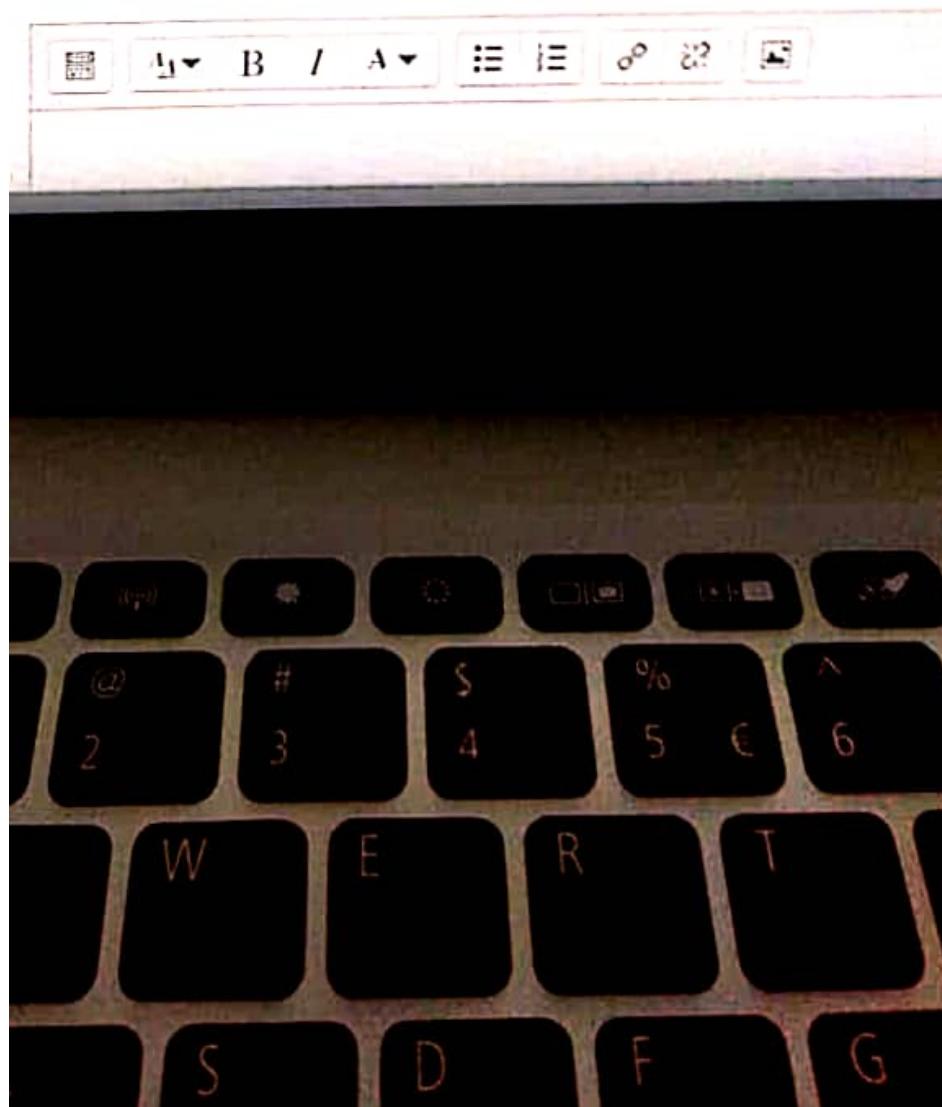
Example 2

Input : banana

Output :banana

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

    return 0;
}
```



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ion

Write a C program to read a string from the keyboard to an array called **word** and if the word has odd number of letters, replace the middle letter of the word with a **space**. If the word has even number of letters, display the original word. If the word had odd number of letters, display the word with a space in the middle.

Example 1

Input : Apple

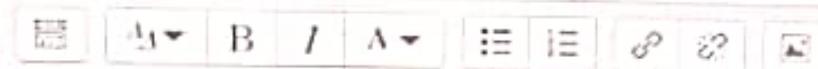
Output : Ap le

Example 2

Input : banana

output :banana

```
# include <stdio.h>
# include <string.h>
int main(void)
{
    .....
    .....
    .....
    return 0;
}
```



I

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Write the output of following code segments.

1)

```
char ch = 70;  
  
int no = ch - 1;  
  
printf("%c", no);
```

Note: ASCII value of A is 65

Output :

2)

```
printf("%d", 2 + (3 - 4) + 8 % 5 * 4);
```

Output :

3)
int i = 0;
while (i <= 99)
{
 i++;
}
printf("%d", i)

Output :



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ion 7

et answered

ed out of

ag question

SLIIT decided to use a text file called "**vaccination.dat**" to store the covid-19 vaccination details about their student ID, vaccination type(Pfizer, Moderna, Sinopharm) and number of doses.

The file contain the data in the following format.

IT21209837 Pfizer 2

IT21902367 Moderna 1

IT21902817 Sinopharm 2

IT21903817 Sinopharm 2

IT21725612 Sinopharm 1

Write a C program to read the vaccination.dat file and count the number of students who has taken vaccination I details to another file called "**counts.dat**".

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if the two strings are equal.

Output file format

Pfizer 1

Sinopharm 3

Moderna 1



- VIEW THE DATA OR VALUES ON THE FOLLOWING MATRIX AS SHOWN IN YELLOW.
2. Print the array with '*' for the upper triangular part.

1	*	*
3	2	*
8	5	9

Sample output

Sum is 12

1	*	*
3	2	*
8	5	9

```
#include<stdio.h>
int main(void)
{
    int arr[3][3] = { [0][0]=1, [0][1]=2, [0][2]=3, [1][0]=8, [1][1]=5, [1][2]=9, [2][0]=4, [2][1]=6, [2][2]=7 };
    int i,j,total =0;

    for(i=0;i<3;i++){
        for(j = 0; j < 3; j++)
            if( [i][j] > 5 )
                total += arr[ [i] ][ [j] ];
    }
    printf("Sum is %d \n",total);
}
```

Write a C program to read a string from the keyboard to an array called **word** and if the word has odd number of letters, replace the middle letter of the word with a **space**. If the word has even number of letters, display the original word. If the word had odd number of letters, display the word with a space in the middle.

Example 1

Input : Apple

Output : Ap le

Example 2

Input : banana

output :banana



```
# include <stdio.h>
# include <string.h>
int main(void)
{
    .....
    .....
    .....
    return 0;
}
```

Question 2

Not yet answered

Marked out of
5.00 Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = [ ] (1/[ ])3 + [ ] (([ ]) (x) + [ ]) (-x) /2, 2);
    return 0;
}
```

Question 5

Not yet answered

Marked out of
5.00

Flag question

A shopping mall has 4 shops(1-4) and they are giving different discounts for each day in a week(1-7).

Example:**Monday (1)**

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**.

If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;
```

Due to the pandemic situation, most of the companies are concern about the transportation mode of their employees. A company conducted a survey and the results are stored in a text file called "survey.dat". The file contains the employee number, mode of transport (bus/train/private vehicle/walk).

The file contain the data in the following format.

101 bus

102 train

103 walk

104 private_vehicle

105 bus

Write a C program to read the survey.dat file, count the number of employees travel from each mode and write the counts in a file named "transportSummary.dat" file.

Hint : Can use `strcmp(str1, str2)` to compare two strings. The function returns 0 if the two strings are equal.

transportSummary.dat file format

bus 2

train 1

walk 1

private_vehicle 1

Question 4

Not yet answered

Marked out of
20.00

Flag question

"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below:

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called `calBonus()` to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance )
```

- b) Write a function called `testCalBonus()` which contains the assert statements to debug the above implemented

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y .

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4
    float mu = 90;
    int x = 80;
    float y = 1 / (gama * sqrt((2 * pi))) * exp(-1 / (2 * ((x - mu) / gama) ^ 2));
    return 0;
}
```

1

Answered
out of
question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = (1/( ) + (e^(x) + ( -x ))/2, 2);
    return 0;
}
```



A shopping mart decides to give a discount for their customers based on their total bill amount.

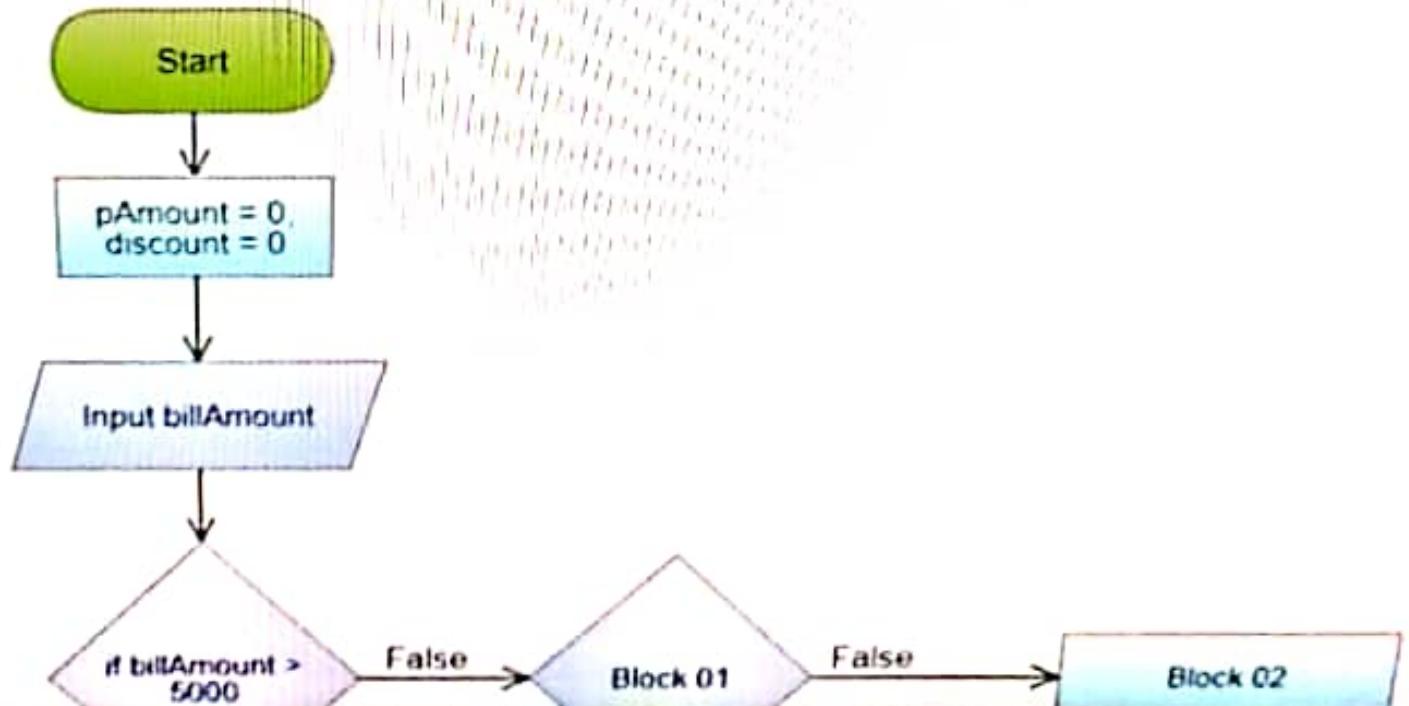
$$\text{Discount} = \text{total bill amount} * \text{rate} / 100$$

$$\text{Payable amount} = \text{Total bill amount} - \text{Discount}$$

Bill Amount	Discount Rate
Greater than 5000	30%
2000 - 5000	20%
Less than 2000	10%

The following flowchart is drawn to calculate and display the final payable amount of a customer.

Write the relevant instructions (Block 01 - 05) in the given space.



x



The file contain the data in the following format.

101 bus
102 train
103 walk
104 private_vehicle
105 bus

Write a C program to read the survey.dat file, count the number of employees travel by "transportSummary.dat" file format.

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if they are equal.

transportSummary.dat file format

bus 2

train 1

walk 1

private_vehicle 1



```
int main(void)
{
    int p[3];
    char flag;
    int i,pid;

    for(i=0;i<3;i++){
        printf("Enter Product Id: ");
        scanf("%d",&p[i].id);
        printf("Enter Product availability: ");
        scanf(" %c",&p[i].availability);
        printf("Enter Product price: ");
        scanf("%f",&p[i].price);
    }

    printf("Enter product Id that you wish to order: ");
    scanf("%d",&pid);

    for(i=0;i<3;i++){
        if(p[i].id == pid){
            if(p[i].availability == 1)
                break;
        }
    }

    if(flag == 'Y')
        printf("Product is available.");
    else
        printf("Product is not available.");
}
```

Output:

4)

int x,y;

x = 20;

y = 15;

if (x > 15)

 if (y > 20)

 printf("%d", x);

 else

 printf("%d", y);

Output:

5)

Int i;

for (i = 1; i <= 20; i++)

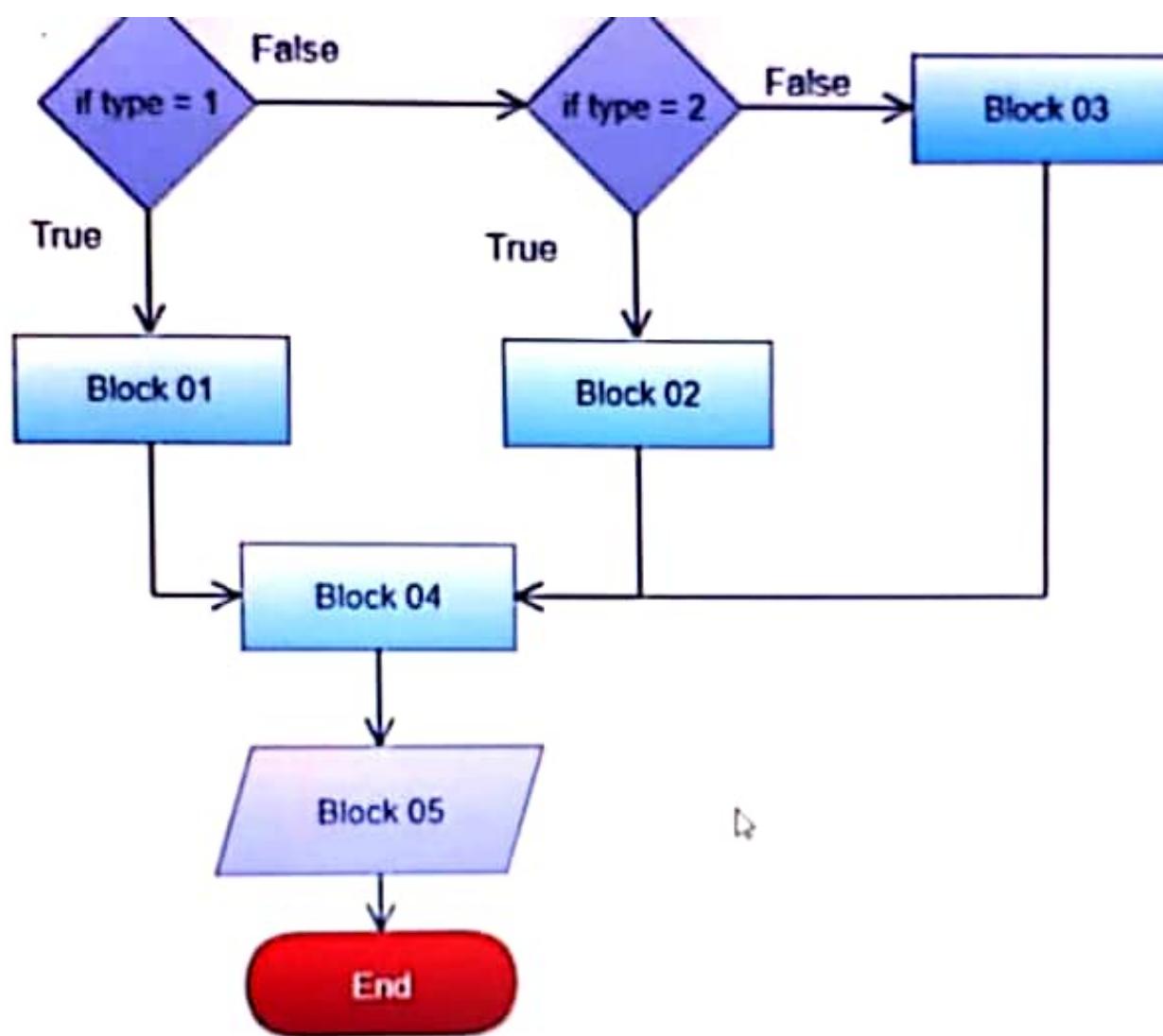
{

 i++;

}

printf("%d", i);

Output:



File Edit View Insert Tools Help

Block 01

Block 02

Block 03

Java Technology

The bank is giving away bonuses for their account holders during the new year season. The bonuses are decided based on the account type and the account balance as shown in the table below:

Account Type	Bonus percentage according to account balance (Rs)
Fixed (F)	Balance < 100,000 5%
Savings (S)	Balance between 100,000 to 200,000 7%
	Balance above 200,000 10%
	Balance < 100,000 4%
	Balance between 100,000 to 200,000 5%
	Balance above 200,000 8%

b) Write a function called `calBonus()` to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance )
```

c) Write a function called `testCalBonus()` which contains the assert statements to debug the above `calBonus()` function.

The bank has also decided to give a gift for the account holders according to the new account balance. The table below shows the criteria for the gifts.

Gift given for the new account balance (Rs)
0 to 10000
10000 to 20000
20000 to 50000

Question 6
Not yet answered
Marked out of
20.00
Flag question

Due to the pandemic situation, most of the companies are concern about the transportation mode of their employees. ABC company conducted a survey and the results are stored in a text file called "survey.dat". The file contains the employee number, mode of transport (bus/train/private vehicle/walk).

The file contain the data in the following format.

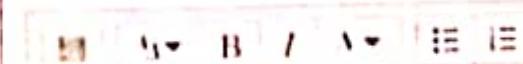
- 101 bus
- 102 train
- 103 walk
- 104 private_vehicle
- 105 bus

Write a C program to read the survey.dat file, count the number of employees travel from each mode and write the counts to the "transportSummary.dat" file.

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if the two strings are equal.

transportSummary.dat file format

- bus 2
- train 1
- walk 1
- private_vehicle 1

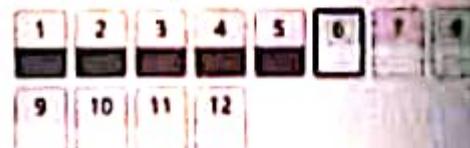


```
#include<stdio.h>
void check(int i, char j,y)
```

≡ Quiz navigation

Finish attempt ..

Time left 0:58.14



FEEDBACK



Question 4

Not yet answered

Marked out of
5.00

Flag question

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y =( 1 / ( gama *          (2 * pi))) * (      (-1/(           ) 2 *      ((( x - mu) / gama), 2)))
    return 0;
}
```



Question 4

Not yet answered

Marked out of
100

* Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = root (1/( | )3) + (( ( x ) + pow ( -x ) )/2, 2);
    return 0;
}
```



*
**


```
#include<stdio.h>
int main(void)
{
    int row=1, currentStar=0;

    while(row<=5){
        if(currentStar < row){
            printf("*");
        }
        else if(currentStar == row){
            printf(" *");
            row++;
            currentStar = 0
        }
        else
            return 0;
    }
}
```

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Following C program uses to create a 2D array with the values as below.

```
1 4 5  
3 2  
8 5 9
```

Complete the following C code to do the following.

- 1 Find the sum of values on the following line highlighted in yellow.
- 2 Print the array with '*' for the upper triangular part.

```
1 * *  
3 2 *  
8 5 9
```

Ans

Sample output:

Sum is 12

```
1 8 *  
3 2 *  
8 5 9
```

```
for(j=0;j<    ;j++){  
    printf("Enter discount for shop%d on day%d: ",i+1,j+1);  
    scanf("%d",    );  
}  
}  
  
printf("Enter purchase value: ");  
scanf("%f",&payment);  
  
printf("Enter shop number and day number that customer bought the product \n");  
printf("Shop number (1-4) :");  
scanf("%d",&s);  
printf("Day number (1-7) :");  
scanf("%d",&d);  
  
payment    = (payment*    )/100;  
  
printf("Product payment after the discount :%.2f ",payment);  
  
return 0;  
}
```

[Next page](#)

Question 4

Not yet answered

Marked out of

1.00

Flag question

The equation for the normal (bell-shaped) curve used in statistical applications is,

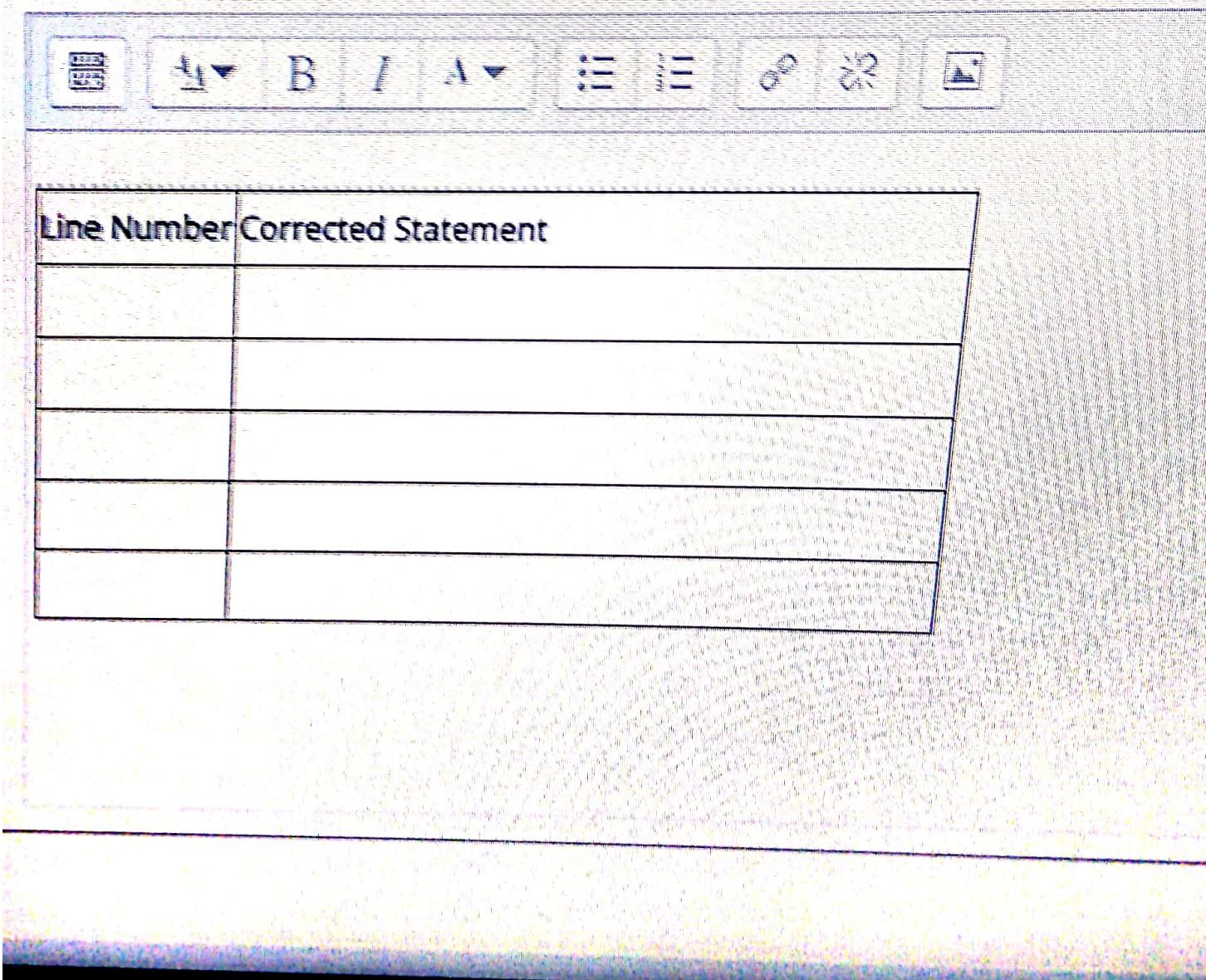
$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y = (1 / (gama * sqrt((2 * pi)))) * ( [ ] ( -1 / [ ] ) 2 * pow(((x - mu) / gama), 2))
    return 0;
}
```

[Next page](#)

```
X  
| | i | +  
Line 10 {  
Line 11     sum += n;  
Line 12 }  
Line 13 }  
  
Line 14 printf("The summation of even numbers upto %d = %d", n);  
  
Line 15 return 0;  
Line 16}
```



The screenshot shows a Microsoft Word document window. At the top, there is a toolbar with various icons. Below the toolbar is a table with two columns: "Line Number" and "Corrected Statement". The table has six rows, but only the first row contains data. The first row's "Line Number" column is empty, and its "Corrected Statement" column contains the code from the previous text block.

Line Number	Corrected Statement
	{ sum += n; } } printf("The summation of even numbers upto %d = %d", n); return 0;

```
#include<stdio.h>
int main(void)
{
    int mark[30], i=0;
    int high,low;
    printf("Enter marks for each student: \n");
    for(i=0;i<30;i++)
        scanf("%d", &mark[i]);
    high = mark[0];
    low = mark[0];
    for(i=0;i<30;i++)
    {
        if(mark[i]> high)
            high = mark[i];
        if(mark[i]< low)
            low = mark[i];
    }
    printf("The highest mark is %d (%d)\n", high);
    printf("The lowest mark is %d (%d)\n", low);
    return 0;
}
```



Question 4

Not yet answered

Marked out of
5.00

Flag question

The following C program is written to find the sum of digits in an input number entered from the keyboard. Complete the C program with correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = [REDACTED], digit;

    printf("Enter a number ");
    scanf("%d", &number);

    while(number>0)
    {
        digit = [REDACTED] % [REDACTED];
        sum = sum + [REDACTED];
        number = number / 10;
    }
}
```

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Write the output of following code segments.

1)

```
char ch = 70;
```

```
int no = ch - 1;
```

```
printf("%c", no);
```

Note: ASCII value of A is 65

Output :

2)

```
printf("%d", 2 + (3 - 4) + 8 % 5 * 4);
```

Output :

3)

```
int i = 0;  
while (i <= 99)  
{  
    i++;  
}  
printf("%d", i);
```

Output :

4)

```
char s[10];  
strcpy(s, "Hello");  
printf("%d", strlen(s));
```

Output :

5)



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Question 6

Not yet answered

Marked out of
5.00

Flag question

The equation for the normal (bell shaped) curve used in statistical applications is

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{-\frac{1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    float pi = 3.14159;
    float gamma = 4;
    float mu = 90;
    int x = 80;
    float y = 1 / (gamma * sqrt(pi)) * e^( - (x - mu)^2 / (2 * gamma^2));
    return 0;
}
```

Question 1
Not yet answered
Marked out of 5.00
 Flag question

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = sqrt((1/(discrimin))3) + exp((exp(x) + exp(-x))/2, 2);
    return 0;
}
```

≡ Quiz nav

Finish attempt

Time left 1:38:39

1 2 3

9 10 11

FEEDBACK

13

Next page

X



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Following is a C program written for an online shopping cart system. A structure called **Product** program should read the following details of 3 products from the keyboard and store in a array.

Product Id	Availability	Unit Price(Rs.)
1	Y	400.00
2	Y	650.00
3	N	1000.00

Customer can check the product availability by input the product id through the keyboard. According to the following messages.

Sample output 1

Enter Product Id :3

Sorry! The product is not available.

Sample output 2

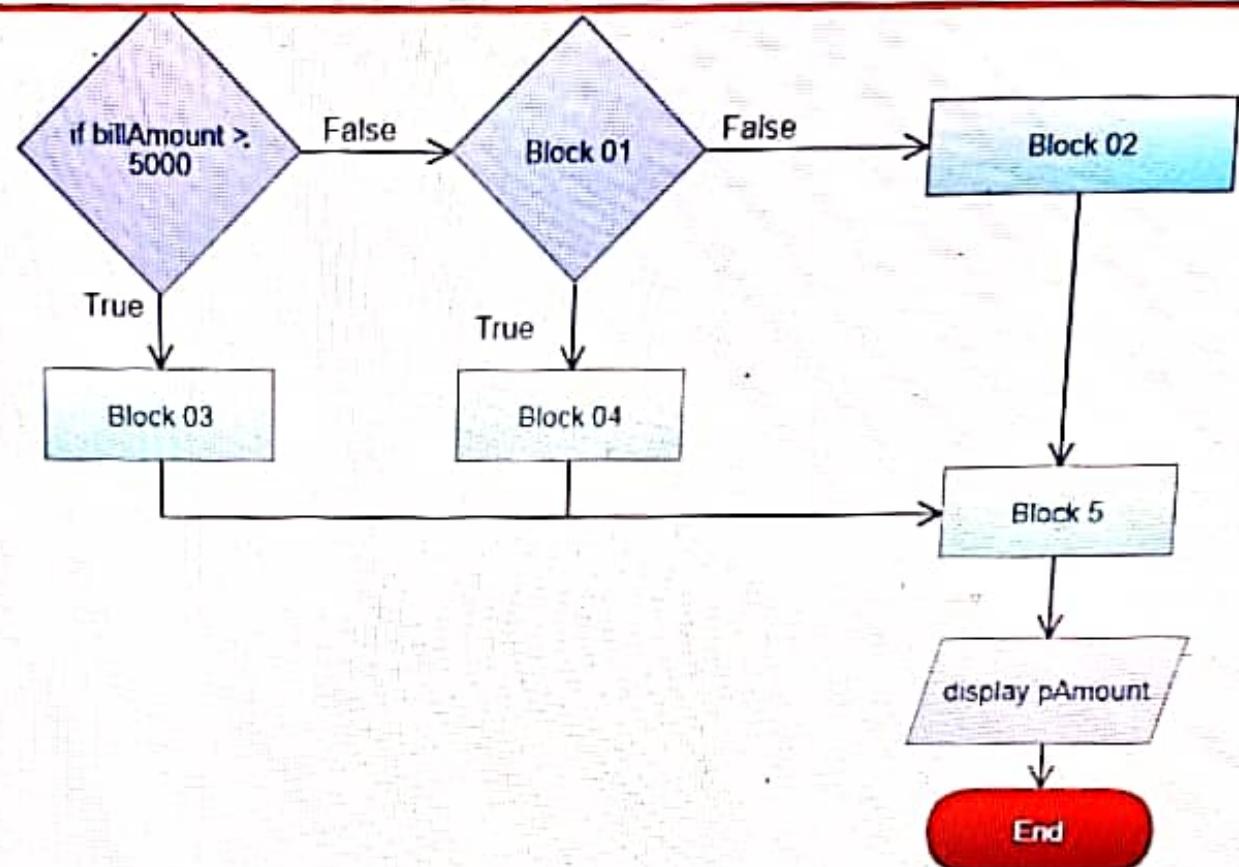
Enter Product Id:2

Product is available.

Complete the following C program with proper values for the blank spaces.

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

```
Product{  
    int id;  
    char availability;  
    float price;  
};  
  
int main(void)  
{  
    Product p[3];  
    char flag;  
    int i,pid;
```



Block 01 - if billAmount>2000

Block 02 - Discount= total bill amount * 20/100

Block 03 - Discount= total bill amount * 30/100

Block 04 - Discount= total bill amount * 10/100

Block 05 - pAmount = total bill amount - Discount

Question 2

Not yet answered

Marked out of
4.00

Flag question

Following is a part of a C program to input 10 numbers from the keyboard store in the array. Next delete an entered by the user.

example :

4	7	9	2	5	1	4	9	10	6
---	---	---	---	---	---	---	---	----	---

if index is 3

New array

4	7	9	5	1	4	9	10	6	
---	---	---	---	---	---	---	----	---	--

Fill the following C code to do the above task.

#include <stdio.h>

int main(void)

{

```
    int arr[10], index;
    printf("Enter array values : ");
    for(i=0;i<10;i++)
        scanf("%d", &arr[i] );
    }
```

Enter a positive number: 3
only divisible by number 1 and 3

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 1;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1, i<number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count == 2)
        printf("only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
}
```

Question 1

Not yet answered

Marked out of
0.00

* Flag question

What are the outputs of the following statements?

1)

```
char ch = 'I';
int no = ch - 32;
printf("%c", no);
```

Note : ASCII value of a is 97.

ASCII value of A is 65.

Output :

2)

```
printf("%d", 10 + 3 - (4 + 6) - 6 % 4);
```

Output :

3)

```
i = 0;
while (i < 200)
{
    i++;
}
printf("%d", i);
```

Output :

4)

```
int *y;
```

Following program is written by a student to display the summation of even numbers from 1 to n.

There are **five errors** in the program. Find the errors and write down the **corrected statements** in given space.

Line 01 #include<stdio.h>

Line 02 int main()

Line 03 {

Line 04 int i, n, sum = 1;

Line 05 printf("Please enter n value : ");

Line 06 scanf("%d", &n);

Line 07 for(i = 1; i <= n; i--)

Line 08 {

Line 09 if (i % 2 == 0) #Check whether remainder is 0 or not

Line 10 {

Line 11 sum += n;

Line 12 }

Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n);

Write a C program to input two words from the keyboard into two arrays called Word1 and Word2 and exchange and store the words in the arrays as following.

Input

Word1 = Hello , Word2 = World

After exchanging,

Word1 = World , Word2 = Hello

```
# include <stdio.h>
# include <string.h>
int main(void)
{
    .....
    .....
    .....
    printf("word1 is %s, word2 is %s", Word1, Word2);
    return 0;
}
```

```
double calCommission( char type, float sales);
```

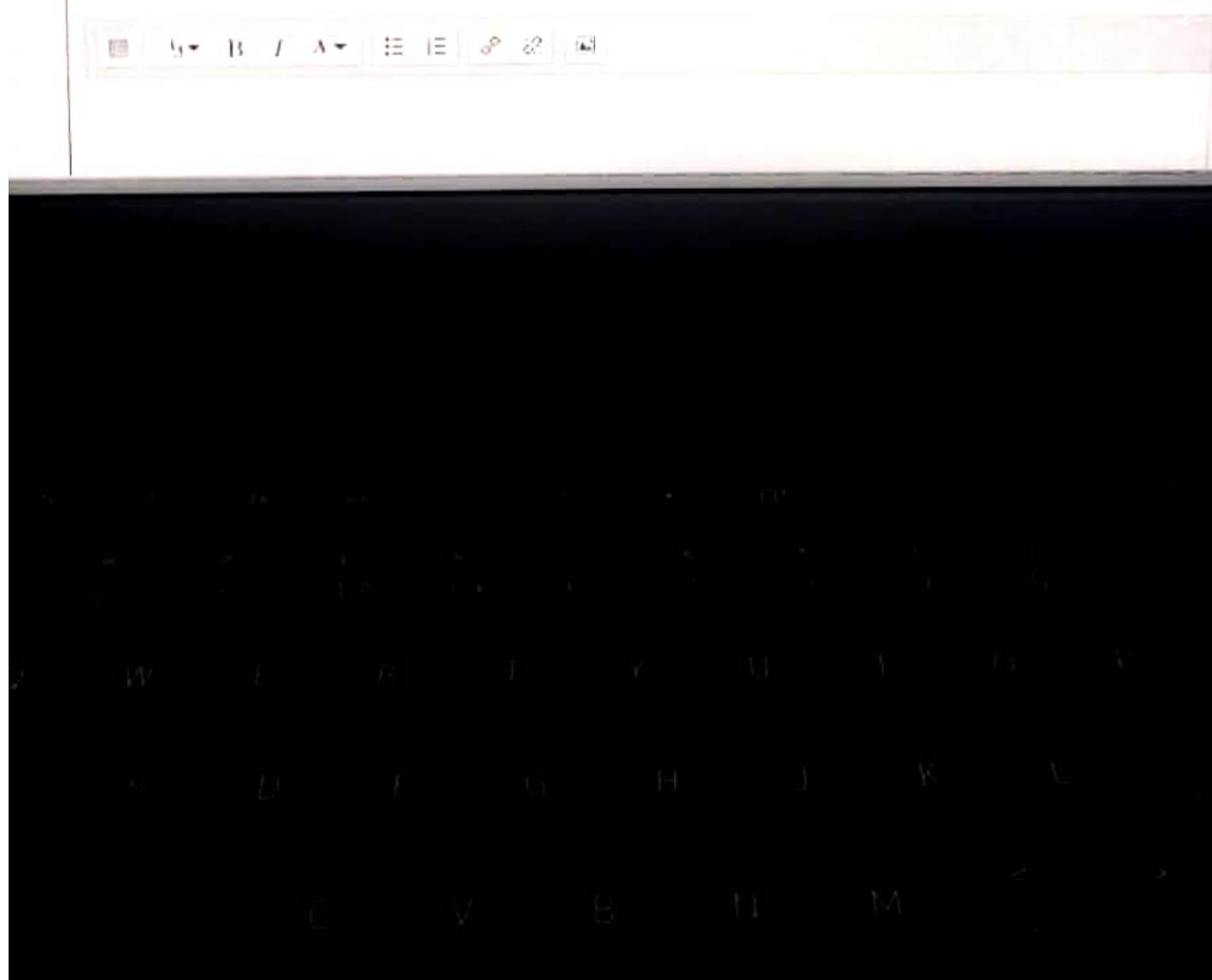
- b) Write a function called **testCalCommision()** which contains two assert statements to debug the above implemented function.
- c) The company wants to recognize the distributors according to their sales as shown in the table below.

Sales	Award
> 300,000	Gold
300,000 - 200,000	Silver
< 200,000	No award

Write a function called **printAward()** to display a message indicating the award won by a distributor according to the sales done, by taking the sales amount as a parameter.

```
void printAward( float sales);
```

- d) In your program do the following:
 - i) Call the **testCalCommision()** function.
 - ii) Input the product type ('B' for bottled water, 'F' for fruit drinks) and the sales amount from the keyboard. If the user input an invalid product type, display an error message. Calculate and display the commission earned by each distributor using the function implemented in part a) and display the awards if there are any. Repeat this for five distributors.





lt21378102 Herath H.M.K.R. lt21378102

≡ Quiz navigation

Finish attempt ...

Time left 1:37:14

1	2	3	4	5	6	7
8	9	10	11	12		

FEEDBACK

13

question 3
not yet answered
Marked out of
1.00
Flag question

Due to the pandemic situation, most of the companies are concern about the transportation mode of their employees. ABC company conducted a survey and the results are stored in a text file called "**survey.dat**". The file contains the employee number, mode of transport (bus/train/private vehicle/walk).

The file contain the data in the following format.

101 bus
102 train
103 walk
104 private_vehicle
105 bus

Write a C program to read the **survey.dat** file, count the number of employees travel from each mode and write the counts to the "**transportSummary.dat**" file.

Hint : Can use `strcmp(str1, str2)` to compare two strings. The function returns 0 if the two strings are equal.

transportSummary.dat file format

bus 2
train 1
walk 1
private_vehicle 1

3)

```
int i = 0;
while (i <= 99)
{
    i++;
}
printf("%d", i);
```

Output :

4)

```
char s[10];
strcpy(s, "Hello");
printf("%d", strlen(s));
```

Output :

5)

```
char letter = 'C';
if (letter == 'V' || letter == 'v')
    printf("Vanilla\n");
else if (letter == 'C' && letter == 'c')
    printf("Chocolate\n");
else
    printf("Other\n");
```

Output :

What are the outputs of the following statements?

1)

```
char ch = 'i';
```

```
int no = ch - 32;
```

```
printf("%c", no);
```

Note : ASCII value of a is 97.

ASCII value of A is 65.

Output :

2)

```
printf("%d", 10 + 3 - (4 + 8) - 6 % 4);
```

Output :

3)

```
i = 0;  
while (i < 200)  
{  
    i++;
```

Consider the following equation.

$$y = \sqrt{\frac{1}{3} + \left(\frac{e^x + e^{-x}}{2}\right)^2}$$

Complete the following C program to calculate the value of y.

```
# include <stdio.h>
# include <math.h>
int main(void)
{
    int x = 4;
    float y = [REDACTED] (1/[REDACTED] )3) + [REDACTED] (([REDACTED] (x) + [REDACTED] (-x))/2. 2);
    return 0;
}
```



"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below:

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

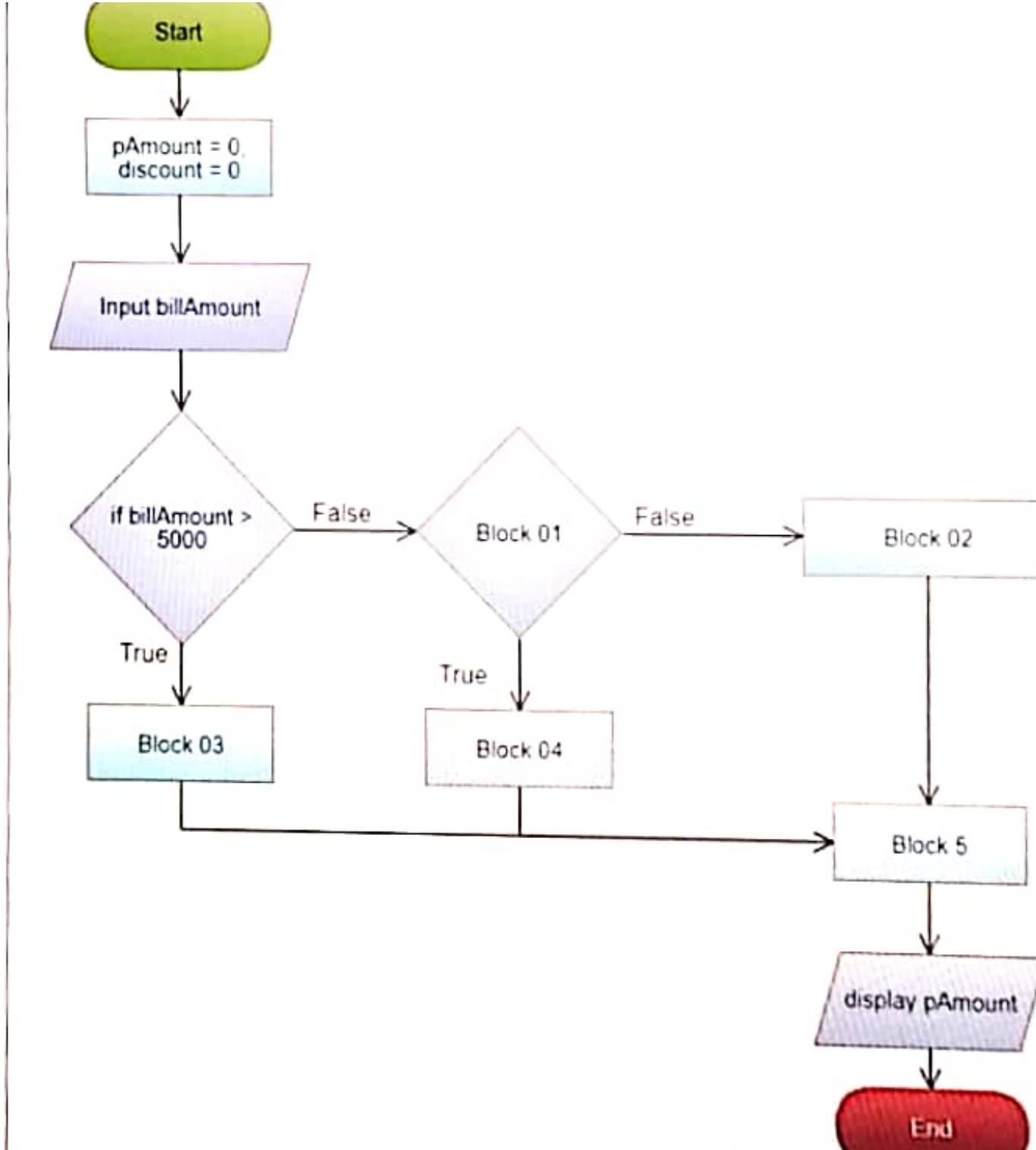
- a) Write a function called `calBonus()` to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance)
```

- b) Write a function called `testCalBonus()` which contains the assert statements to debug the above implemented function.

The bank has also decided to give a gift for the account holders according to the new account balance after adding the bonus. The table below shows the criteria for the gifts.

Account Type	Gift given for the new account balance (Rs)		
	Balance < 100,000	Balance between 100,000 - 200,000	Balance above 200,000
Fixed	No gift	Flower	Flender



The following C program is written to find the sum of digits in an input number entered from the keyboard. Fill in the correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = 0, digit;

    printf("Enter a number ");
    scanf("%d", &number);

    while(number>0)
    {
        digit = |     %d   ;
        sum = sum +     ;
        number = number - 10;
    }

    printf("sum is %d",sum);

    return 0;
}
```

Following C program is written to input set of cloth pieces count in an apparel company. Sentinel value to stop entering pieces count is -1. The cloth pieces count should be in between 500 and 1000 and if not, print an error message and continue with the next input. Finally, display the total number of cloth pieces produced by the company.

Complete the following C code by filling the missing statements / values.

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

```
int main(void)
```

```
{
```

```
    int pieces, total=0;
```

```
    printf("Enter cloth pieces count: ");  
    scanf("%d", &pieces);
```

```
    while(
```

```
        K
```

```
        if(pieces < 500 || pieces > 1000){  
            printf("Number is invalid! \n");  
            printf("Enter the next number\n");  
        }else
```

```
            total +=
```

```
        }
```

```
    }
```

```
    printf("Sum of cloth pieces count is %d",total);
```

```
#include<stdio.h>
int main(void)
{
    int row=1, currentStar=0;

    while(row<=5){
        if(currentStar != row){
            printf("*");
            currentStar++;
        }
        else if( currentStar == row){
            printf("\n");
            row++;
            currentStar = 0;
        }
    }
    return 0;
}
```

The following C program is written to find the sum of digits in an input number entered from the keyboard.
Complete the C program with correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = , digit;
```

```
    printf("Enter a number ");
    scanf("%d", &number);
```

```
    while(number>0)
    {
```

```
        digit =  %  ;
```

```
        sum = sum +  ;
```

```
        number = number  10;
```

```
}
```



```
};
```

```
int main(void)
```

```
{
```

```
    struct Product p[3];
```

```
    char flag;
```

```
    int i,pid;
```

```
    for(i=0;i<3;i++){
```

```
        printf("Enter Product Id: ");
```

```
        scanf("%d",&p[i].id);
```

```
        printf("Enter Product availability: ");
```

```
        scanf(" %c",&p[i].availability);
```

```
        printf("Enter Product price: ");
```

```
        scanf("%f",&p[i].price);
```

```
}
```

```
    printf("Enter product Id that you wish to order: ");
```

```
    scanf("%d",&pid);
```



```
    for(i=0;i<3;i++){
```

```
        if(p[i].id == pid){
```

```
            flag = !p[i].availability;
```

```
            break;
```

```
}
```

```
}
```

```
    if(flag == 0)
```

"ABC" Development Bank is giving away bonuses for their account holders during the new year season. The bonuses are given according to the account type and the account balance as shown in the table below:

Account Type	Bonus percentage according to account balance (Rs)		
	Balance < 100,000	Balance between 100,000 to 200,000	Balance above 200,000
Fixed (f)	5%	7%	10%
Savings (s)	4%	5%	8%

- a) Write a function called calBonus() to calculate the bonus given for an account by sending the account type and the account balance as parameters.

```
float calBonus( char accType, float accBalance)
```

Sample output

Sum is 12

```
1 4 8  
3 2 4  
8 5 9
```

```
#include<stdio.h>  
int main(void)  
{  
  
    int arr[3][3] = {  
        {1, 4, 8},  
        {3, 2, 4},  
        {8, 5, 9}  
    };  
  
    int i, j, total = 0;  
  
    for(i=0; i<3; i++) {  
        for(j = 0; j < 3; j++) {  
            if(i == j)  
                total += arr[i][j];  
        }  
    }  
    printf("Sum is %d\n", total);  
}
```

Question 9

Not yet answered

Marked out of

5.00

Flag question

The following C program is written to find the sum of digits in an input number entered from the keyboard. Complete the C program with correct values for the blank spaces.

Sample output

Enter a number: 1890

Sum is 18

```
#include<stdio.h>
int main(void)
{
    int number, sum = [REDACTED], digit;

    printf("Enter a number ");
    scanf("%d", &number);

    while(number>0)
    {
        digit = [REDACTED] % [REDACTED];
        sum = sum + [REDACTED];
        number = number [REDACTED] 10;
    }

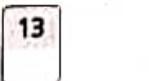
    printf("sum is %d",sum);

    return 0;
}
```

≡ Quiz n

Finish attempt

Time left 0:59

**FEEDBACK**[Next page](#)

Question 1

Not yet answered

Marked out of
5.00

Flag question

A shopping mart decides to give a discount for their customers based on their total bill amount.

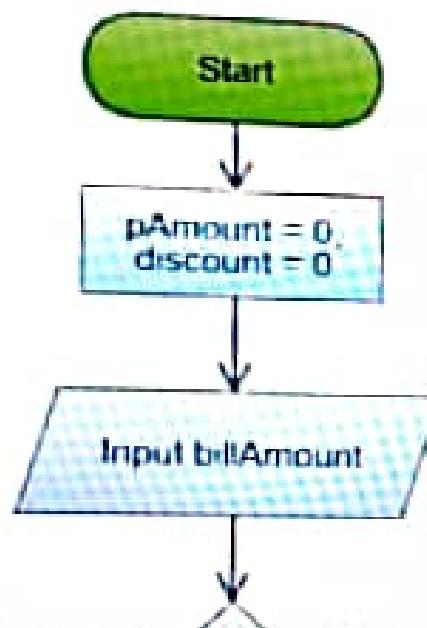
Discount = Total bill amount * rate / 100

Payable amount = Total bill amount - Discount

Bill Amount	Discount Rate
Greater than 5000	30%
2000 - 5000	20%
Less than 2000	10%

The following flowchart is drawn to calculate and display the final payable amount of a customer.

Write the relevant instructions (Block 01 - 05) in the given space.





Question 8
Not yet answered
Marked out of
5.00
 Flag question

≡ Quiz

Finish after

Time left 1:

1	2
9	10

FEEDBACK

13

A shopping mall has 4 shops(1-4) and they are giving different discounts for each day in a week(1-7).

Example:

Monday (1)

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**.

If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;

    float payment;
    printf("Enter discount amount for each shop \n");

    for(i=0;i<[ ] ;i++){
        for(j=0;j<[ ] ;j++){
            printf("Enter discount for shop%ld on day%ld: ",i+1,j+1);
            scanf("%ld", [ ]);
        }
    }
}
```





"ABC" manufacturing company wants to keep track of their sales done by the distributors. The company wants to give a commission to the distributors according to the product they sell. The company mainly produce two products as shown in the table below.

Product	Commission percentage		
	Sales <200,000	Sales between 200,000 to 300,000	Sales >300,000
Bottled water (B)	10%	15%	20%
Fruit drinks (F)	15%	20%	25%

- a) Write a function called `calCommission()` to calculate the commission earned by taking the product type and the sales amount as parameters.

```
double calCommission( char type, float sales);
```

- b) Write a function called `testCalCommision()` which contains two assert statements to debug the above implemented function.

- c) The company wants to recognize the distributors according to their sales as shown in the table below.

Sales	Award
>300,000	Gold
300,000 - 200,000	Silver
<200,000	No award

Write a function called `printAward()` to display a message indicating the award won by a distributor according to the sales done, by taking the sales amount as a parameter.

```
void printAward( float sales);
```

Line 12 }

Line 13 }

Line 14 printf("The summation of even numbers upto %d = %d", n);

Line 15 return 0;

Line 16 }

The screenshot shows a Microsoft Word document window. At the top, there is a ribbon with various tabs and icons. Below the ribbon, a table is displayed. The table has two columns: 'Line Number' and 'Corrected Statement'. There are five rows in the table, each with empty cells for writing.

Line Number	Corrected Statement

a)

```
double calCommission( char type, float sales);
{
    switch(type)
    {
        case 'B':
            if(sales<200000)
                return (double)sales*(10.0/100.00);
            else if(sales>=200000 && sales <=300000)
                return (double)sales*(15.0/100.00);
    }
}
```

Next page

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Sales	Award

A company decides hourly rate of OT payments according to the employee type. The following.

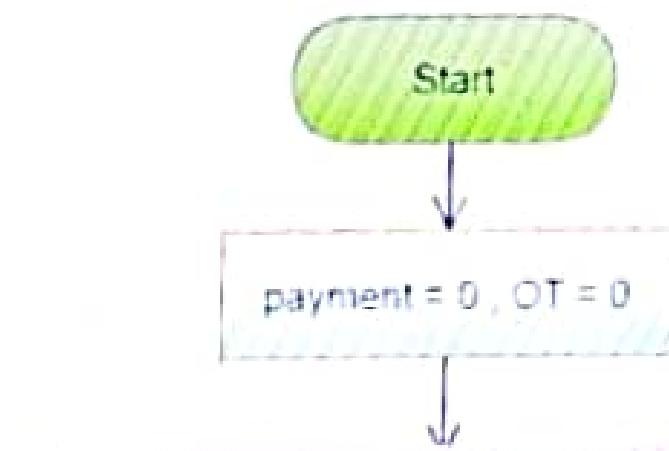
OT payment = Hourly rate * No. of hours worked

Monthly payment = Basic salary + OT payment

Employee Type	Hourly Rate (Rs.)
1	2000.00
2	1500.00
3	1000.00

The following flowchart is drawn to calculate and display the monthly payment of an employee.

Write the relevant instructions (Block 01 - 05) in the given space.



Customer can check the product availability by input the product id through the keyboard following messages

Sample output_1

Enter Product Id: 3

Sorry! The product is not available.

Sample output_2

Enter Product Id: 2

Product is available

Complete the following C program with proper values for the blank spaces.

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

```
Product(  
    int id;  
    char availability;  
    float price;  
);
```

```
int main(void)
```

```
{
```

```
    p[3];
```

```
    char flag;
```

```
    int i,pid;
```

```
for(i=0;i<3;i++){
```

```
    printf("Enter Product Id: ")
```

```
    scanf("%d" &p[i].id);
```

```
    printf("Enter Product availability: ")
```

```
    scanf(" %c" &p[i].availability);
```

```
    printf("Enter Product price: ")
```

```
    scanf("%f" &p[i].price);
```

ABC manufacturing company wants to keep track of their sales done by the distributors. The company wants to give a commission to the distributors according to the product they sell. The company mainly produce two products as shown in the table below.

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```
double calCommission( char type, float sales);
```

- b) Write a function called **testCalCommision()** which contains two assert statements to debug the above implemented function.

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Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**. If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;

    float payment;
    printf("Enter discount amount for each shop in %f\n");

    for(i=0;i<4;i++)
        for(j=0;j<7;j++)
            printf("Enter discount for shop%d on day%ld: ", i+1, j+1);
```

Quiz navigation

Finish attempt ...

Time left 1:14:39



FEEDBACK

13

Autodesk Windows
Autodesk Windows
Autodesk Windows

Following program is written by a student to display the multiplication of some numbers. The program takes ten user input numbers and calculates the multiplication of positive numbers and skip negative numbers.

There are **five errors** in the program. Find the errors and write down the **corrected statements** in given space.

```
Line 01 #include <stdio.h>
Line 02 int main()
Line 03 {
Line 04     int number, result = 0;
Line 05     printf("Please Enter ten Numbers\n");
Line 06     for(int i = 1; i <= 10; i++)
Line 07     {
Line 08         printf("Number %d = ", i);
Line 09         scanf("%d", &i);

Line 10         if(number > 0)
Line 11         {
Line 12             continue;
Line 13         }

Line 14         result += number;
Line 15     }

Line 16     printf("Result = %f\n", result);
Line 17     return 0;
```

≡ Quiz navigation

Finish attempt ...

Time left 1:15:50



FEEDBACK

13

The following C program is used to read a positive number (n) greater than 1 from the keyboard. If the number is divisible by number 1 and n", Otherwise print as "divisible by m numbers". Complete the C program.

Sample output

Enter a positive number: 3
only divisible by number 1 and 3

Enter a positive number: 17
only divisible by number 1 and 17

Enter a positive number: 10
divisible by 4 numbers

```
#include <stdio.h>
int main()
{
    int i, number, count = 0;
    printf("Enter a positive number greater than 1: \n");
    scanf("%d", &number);
    if (number <= 1)
        return -1;
    for(i=1; i<=number; i++)
    {
        if(number % i == 0)
        {
            count++;
        }
    }
    if(count <= 2)
        printf("only divisible by number 1 and %d", number);
    else
        printf("divisible by %d numbers", count);
}

```

Monday (1)

Shop1 -> 20%, Shop2 -> 10%, Shop3 -> 25%, Shop4 -> 30%

Tuesday (2)

Shop1 -> 10%, Shop2 -> 5%, Shop3 -> 20%, Shop4 -> 15%

Following is a part of C program written to input the discount percentage for each shop(1-4) on each day (1 -7) and store in an array called **discount**.

If customer buy a product from this shopping mall, complete the following C code to display the payment after the discount.

```
#include<stdio.h>

int main(void)
{
    int discount[4][7];
    int i,j,s,d;

    float payment;
    printf("Enter discount amount for each shop \n");

    for(i=0;i< | I | ;i++){
        for(j=0;j< | | ;j++){
            // Enter code to input discount for shop no. i on day no. " i+1 j+1"
```

SLIIT decided to use a text file called "vaccination.dat" to store the covid-19 vaccination details about their students. The file contains the student ID, vaccination type(Pfizer, Moderna, Sinopharm} and number of doses.

The file contain the data in the following format.

IT21209837 Pfizer 2

IT21902367 Moderna 1

IT21902817 Sinopharm 2

IT21903817 Sinopharm 2

IT21725612 Sinopharm 1

Write a C program to read the vaccination.dat file and count the number of students who has taken vaccination from each type. Write these details to another file called "counts.dat".

Hint : Can use strcmp(str1, str2) to compare two strings. The function returns 0 if the two strings are equal.

Output file format

Pfizer 1

Sinopharm 3

Moderna 1

```
#include<stdio.h>
int main()
{
    do    does   dogs
```

X



Appointment Id	Doctor Name	Doctor Fee(Rs.)	Hospital Type
1	Ganesh	1500.00	A
2	Kasun	2000.00	B
3	Saman	2500.00	B

The hospital charge is added to the doctor fee according to hospital type.

Hospital type	Hospital fee
A	20% of doctor fee
B	10% of doctor fee

Total fee will be calculated by adding hospital fee and doctor fee and display the output as following

Appointment ID	Total Fee
1	1800.00
2	2200.00
3	2750.00

Complete the following C program to implement the above system.



```
#include <stdio.h>

struct Appointment{
    int id;
    char dName[30];
    char hType;
    float dFee;
};

int main(void)
{
    char a[3];
    int i;
```

following C program is written to input set of cloth pieces count in an application. The cloth pieces count should be in between 500 and 1000 and if not, print an error message. Finally display the total number of cloth pieces produced by the company.

Complete the following C code by filling the missing statements / values.

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

```
int main(void)
```

```
{
```

```
    int pieces, total=0;
```

```
    printf("Enter cloth pieces count: ");
```

```
    scanf("%d",&pieces);
```

```
    while( [ ] ) {
```

```
        if(pieces < 500 [ ] pieces>1000){
```

```
            printf("Number is invalid! \n");
```

```
            printf("Enter the next number\n");
```

```
        }else
```

```
            total += [ ];
```

```
}
```

```
printf("Sum of cloth pieces count is %d",total);
```

```
#include<stdio.h>
int main(void)
{
    int arr[3][3] = { {1,4,5},{3,2},{8,5,9} };
    int i,j,sum=0;

    for(i=0;i<3;i++){
        for(j = 0; j < 3; j++)
            if( i==j )
                sum += arr[ i ][ j ];
    }
    printf("Sum is %d \n",sum);

    for(i=0;i<3;i++){
        for(j=0;j<3;j++){
            if( i>j )
                printf("* ");
            else
                printf("%d ",arr[i][j]);
        }
        printf("\n");
    }
}
```

Following C program is written to input set of cloth pieces count in an apparel company. Sentinel value display the total number of cloth pieces produced by the company.

Complete the following C code by filling the missing statements / values.

```
#include<stdio.h>

int main(void)
{
    int pieces, total=0;

    printf("Enter cloth pieces count: ");
    scanf("%d",&pieces);

    while( count==1 ) {
        if(pieces < 500 || pieces>1000) {
            printf("Number is invalid!\n");
            printf("Enter the next number\n");
        } else
            total += count;
    }
}
```

```
for(i=0;i<3;i++){  
    printf("Enter appointment id: ");  
    scanf("%d",&a[i].id);  
    printf("Enter doctor name: ");  
    scanf(" %s", &a [i].dName);  
    printf("Enter hospital type: ");  
    scanf(" %c",&a[i].hType);  
    printf("Enter doctor fee: ");  
    scanf("%f",&a[i].dFee);  
}  
  
printf("Appointment ID\tTotal Fee\n");  
for(i=0;i<3;i++){  
    if(a[i].  
        ==  
        )  
        total = a[i].dFee + 0.2 * a[i].dFee;  
    else  
        total = a[i].dFee + 0.1 * a[i].dFee;  
  
    printf("%d\t%.2f\n",i+1,total);  
}  
return 0;  
}
```

```
for(j=0;j< 7 ;j++){  
    printf("Enter discount for shop%d on day%d: ",i+1,j+1);  
    scanf("%d", &discount[i][j]);  
}  
}
```

```
printf("Enter purchase value: ");  
scanf("%f",&payment);
```

```
printf("Enter shop number and day number that customer bought the product \n");  
printf("Shop number (1-4) :");  
scanf("%d",&s);  
printf("Day number (1-7):");  
scanf("%d",&d);
```

```
payment [ ] = (payment* [ ]) /100;
```

```
printf("Product payment after the discount :%.2f ",payment);
```

```
return 0;  
}
```

```
for(i=0;i<           ;i++){  
    for(j=0;j<           ;j++){  
        printf("Enter discount for shop%d on day%d: ",i+1,j+1);  
        scanf("%d",           );  
    }  
}  
  
printf("Enter purchase value: ");  
scanf("%f",&payment);  
  
printf("Enter shop number and day number that customer bought the product \n");  
printf("Shop number (1-4) :");  
scanf("%d",&s);  
printf("Day number (1-7):");  
scanf("%d",&d);  
  
payment [ ] = (payment*           )/100;  
  
printf("Product payment after the discount :%.2f ",payment);
```

The equation for the normal (bell-shaped) curve used in statistical applications is,

$$y = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{\frac{-1}{2} \left[\frac{x-\mu}{\sigma} \right]^2}$$

Complete the following C program to calculate the value of y.

```
#include <stdio.h>
#include <math.h>
int main(void)
{
    float pi = 3.1416;
    float gama = 4;
    float mu = 90;
    int x = 80;
    float y = (1 / (gama * sqrt(2 * pi))) * (e(-1 / ( )2 * pow(((x - mu) / gama), 2))
    return 0;
}
```

A company decides hourly rate of OT payments according to the employee type. The monthly payment is calculated as following.

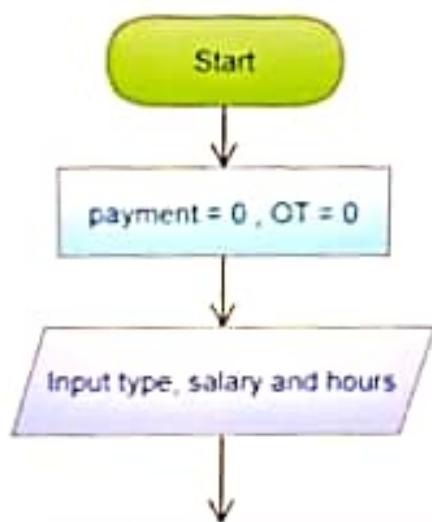
$$\text{OT payment} = \text{Hourly rate} * \text{No. of hours worked}$$

$$\text{Monthly payment} = \text{Basic salary} + \text{OT payment}$$

Employee Type	Hourly Rate (Rs.)
1	2000.00
2	1500.00
3	1000.00

The following flowchart is drawn to calculate and display the monthly payment of an employee.

Write the relevant instructions (Block 01 - 05) in the given space.



Finish attempt

Time left 1:07

1	2	3
9	10	11
12	13	14

FEEDBACK

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