**TUTORIAL 3 SOLUTIONS**

**Question 1**

#include <stdio.h>

int main()

{

int x,total;

total = 0;

for (x = 7; x <= 100; x = x + 7)

{

total = total + x;

}

printf("The summation value is %d\n", total);

return 0;

}

**Question 2**

#include <stdio.h>

int main()

{

int x,y;

do

{

printf("Enter 1st integer value: ");

scanf("%d", &x);

printf("Enter 2nd integer value: ");

scanf("%d", &y);

} while (x >= 0 && y >= 0);

return 0;

}

**Question 3**

#include <stdio.h>

int main()

{

int x,y,product;

for (x = 1; x <= 5; x++)

{

product = 1;

for (y = x; y > 0; y--)

{

product = product\*y;

}

printf("The factorial value for %d is %d\n", x, product);

}

return 0;

}

**Question 4**

#include <stdio.h>

int main()

{

int row, col,size;

printf("Enter size for triangle: ");

scanf("%d", &size);

for (row = 1; row <= size; row++)

{

for (col = 1; col <= row; col++)

{

printf("\*");

}

printf("\n");

}

return 0;

}

**Question 5**

#include <stdio.h>

int main()

{

int ProdNum,Quantity;

float price,total;

total = 0;

printf("Enter product number (-1 to end): ");

scanf("%d", &ProdNum);

while (ProdNum != -1)

{

switch (ProdNum)

{

case 1:

price = 2.98;

break;

case 2:

price = 4.50;

break;

case 3:

price = 9.98;

break;

case 4:

price = 4.49;

break;

case 5:

price = 6.87;

break;

default:

price = 0;

break;

}

printf("Enter quantity sold for one day: ");

scanf("%d", &Quantity);

total = total + price\*Quantity;

printf("Enter product number (-1 to end): ");

scanf("%d", &ProdNum);

}

printf("The total retail value is $%.2f\n", total);

return 0;

}