Tutorial No:05
Writing switch condition, while, do while & for loops

Question 01:

```c
#include <stdio.h>

int main() {
    float numberOne,numberTwo;
    int choice;

    printf("Enter two numbers: ");
    scanf("%f %f",&numberOne,&numberTwo);
    printf("1. + \n2. - \n3. *\n4. /\n");
    printf("Please enter your Choice: ");
    scanf("%d",&choice);

    switch (choice){
        case 1:
        printf("The answer is %.2f",numberOne+numberTwo);
        break;
        case 2:
        printf("The answer is %.2f",numberOne-numberTwo);
        break;
        case 3:
        printf("The answer is %.2f",numberOne*numberTwo);
        break;
        case 4:
        printf("The answer is %.2f",numberOne/numberTwo);
        break;
    }
    return 0;
}
```

Question 02:

```c
#include <stdio.h>

int main() {
    int i = 1, num, oddNum = 0, evenNum = 0;

    while (i <= 10) {
        printf("Enter the number %d: ", i);
        scanf("%d", &num);

        if (num % 2 == 0) {
            evenNumt++;
```

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    } else {
      oddNum++;
    }

    i++;
  }

    printf("The total number of odd numbers are %d\nThe total number of even numbers are
%d\n ", oddNum,evenNum);


    return 0;
}
```

Question 03:

```c
#include <stdio.h>

int main() {
   int num, oddNum = 0, evenNum = 0;

      while (1) {
      printf("Enter the number: ");
      scanf("%d", &num);

      if (num == -99) {
         break;
      }

      if (num % 2 == 0) {
         evenNum++;
      } else {
         oddNum++;
      }
   }

    printf("The total number of odd numbers are %d\nThe total number of even
numbers are %d\n ", oddNum,evenNum);

      return 0;
}
```

Question 04:

```c
#include <stdio.h>

int main() {
   int i = 1, num, oddNum = 0, evenNum = 0;
```

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        do {
            printf("Enter the number %d: ", i);
            scanf("%d", &num);

            if (num % 2 == 0) {
                evenNum++;
            } else {
                oddNum++;
            }

            i++;
        } while (i <= 10);


        printf("The total number of odd numbers are %d\nThe total number of even
        numbers are %d\n ", oddNum,evenNum);

        return 0;
    }
```

Question 05:
```c
    #include <stdio.h>

int main() {
    int num, oddNum = 0, evenNum = 0;

    do {
     printf("Enter the number: ");
     scanf("%d", &num);

     if (num == -99) {
        break;
     }

     if (num % 2 == 0) {
        evenNum++;
     } else {
        oddNum++;
     }
   } while (1);

  printf("The total number of odd numbers are %d\nThe total number of even numbers are %d\n
", oddNum,evenNum);
     return 0;
}
```

Question 06:

```c
#include <stdio.h>

int main() {
    int i, num, sum = 0;
    double aveg;

    for (i = 1; i <= 10; i++) {
        printf("Enter number %d: ", i);
        scanf("%d", &num);

        sum += num;
    }

    aveg = (double) sum / 10;

    printf("The average is %.2f\n", average);

    return 0;
}
```

Question 07:

```c
#include <stdio.h>

int main() {
    int k, i;

    for (i = 1; i <= 5; i++) {
        for (k = 1; k <= i; k++) {
            printf("*");
        }
        printf("\n");
    }

    return 0;
}
```