Solution Lab 06

Task 0: Run following program and understand working for next tasks. This program is generating 5 random numbers in range 0 to 99 and printing the number and its square.

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

int main(){
    srand(time(0));
    int i, x;
    for (i=1;i<=5;i++){
        x = rand() % 100;
        printf ("Square of %d is %d\n", x, x*x);
    }
    return 0;
}</pre>
```

Task1: Write a program (using a for loop) that generates 5 integers from the user and print whether the number is even or odd. See test run for further understanding:

Enter number: 25

25 is odd

Enter a number: 10

10 is even

Enter a number: 36

36 is even

Enter a number: 49

49 is odd

Enter a number: 60

60 is even

Task2: Write a program that generates 10 capital characters at random, check and print whether the character is vowel or consonant. See Test Run:

```
char c;int i;
for (i=1;i<=10;i++){
    c = rand() % 26 + 'A';
    if (c=='A' || c=='E' || c=='I' || c=='0' || c=='U')
        printf("%c is vowel\n", c);
    else
        printf("%c is consonent\n", c);
}</pre>
```

D is consonant U is vowel M is consonant

23 89

19 78

20 65

54 83

Task3: Write a program to run loop 5 times, generate two numbers randomly in each iteration and print them in ascending order, see test run:

37 45