

Кафедра систем штучного інтелекту

Лабораторна робота №8
з дисципліни
«Об’єктно-орієнтоване програмування»

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Код програми:

1)

```
package week9;
import java.util.Scanner;
public class Exe {

    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        Menu menu = new Menu();
        String words[];
        StringBuilder sb[];
        String global_end, global_insert;
        while(true) {

            System.out.println("Select:\na.Input\nb.Show\nc.Calculate\nd.Result\ne.Shut down");
            String a = in.nextLine();
            if(a.equals("a")) {
                System.out.print("How much words do you want to enter: ");
                int num = in.nextInt();
                words = new String[num+1];
                sb = new StringBuilder[num+1];
                for(int i = 0; i < words.length; i++) {
                    words[i] = in.nextLine();
                }
                System.out.print("Ends with: ");
                String end = in.nextLine();
                global_end = end;
                System.out.print("Insert: ");
                String insert = in.nextLine();
                global_insert = insert;
                break;
            }
            else if(a.equals("b") || a.equals("c") || a.equals("d") ||
a.equals("e")){
                System.out.println("You haven't already fulled array");
            }
            else {
                System.out.println("Wrong char.");
            }
        }
        System.out.println("");
        boolean bool = false;
        while(true) {
            System.out.println("Select:\nb.Show\nc.Calculate\nd.Result\ne.Shut
down");

            String a = in.nextLine();
            if(a.equals("b")) {
                menu.show(words);
            }
            if(a.equals("c") && bool == false) {
                menu.calculate(words, sb, global_end, global_insert);
                bool = true;
            }
            if(a.equals("d") && bool == true) {
                menu.result(words, sb, global_end);
            }
            if(a.equals("e")) {
                menu.shutdown();
                return;
            }
        }
    }
}
```

```
    }  
}
```

2)

```
package week9;
```

```
public class Menu {
```

```
    public void show(String[] arg) {  
        System.out.println("List:");  
        for(int i = 0; i < arg.length; i++) {  
            if(arg[i].equals("")) {  
                continue;  
            }  
            System.out.print(arg[i] + " ");  
        }  
        System.out.println();  
    }  
}
```

```
    public void calculate(String[] words, StringBuilder[] sb, String end,  
String insert) {  
        for(int i = 0; i < sb.length; i++) {  
            if(words[i].endsWith(end)) {  
                sb[i] = new StringBuilder(words[i]);  
                sb[i].replace(sb[i].length(), sb[i].length(), insert);  
            }  
        }  
    }  
}
```

```
    public void result(String[] words, StringBuilder[] sb, String end) {  
        for(int i = 0; i < sb.length; i++) {  
            if(words[i].endsWith(end)) {  
                System.out.print(sb[i] + " ");  
            }  
            else {  
                System.out.print(words[i] + " ");  
            }  
        }  
    }  
}  
  
    public void shutDown() {  
        System.out.println("Goodbuy");  
        return;  
    }  
}
```

```
}
```

Результат роботи програми:

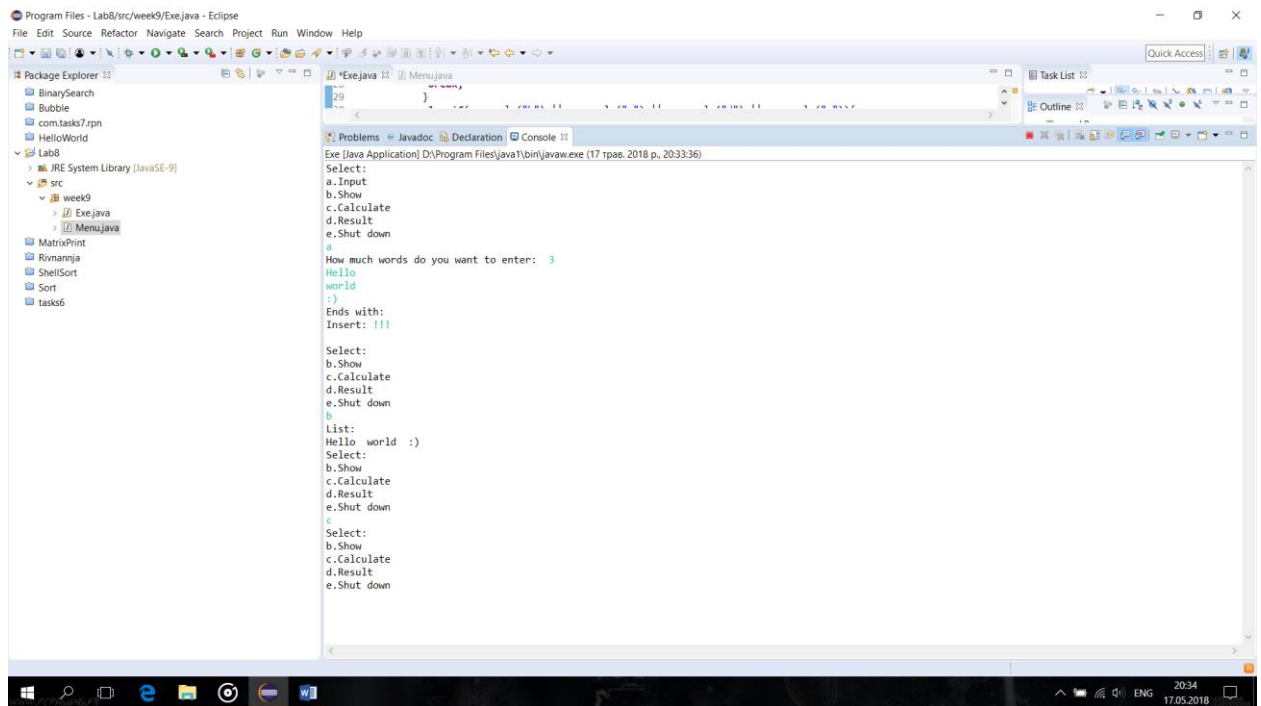


Рис.1

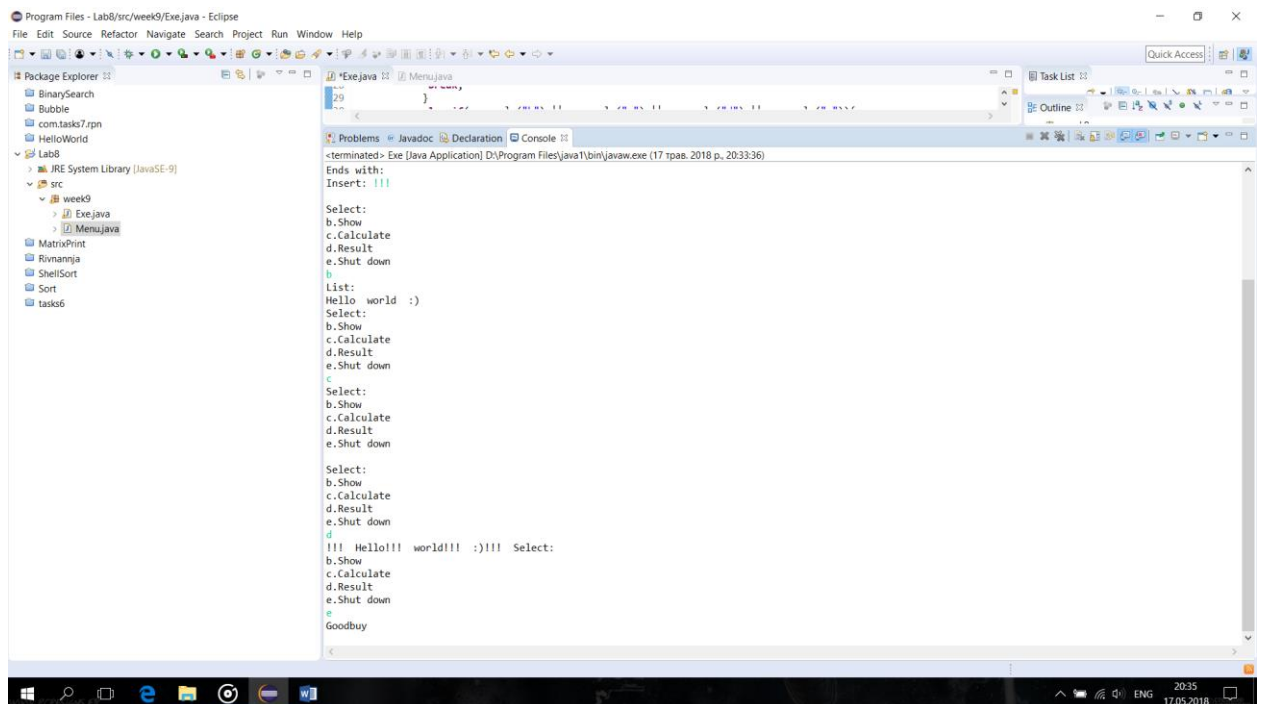


Рис.2