1)

```
package hangmangame;
import java.util.Scanner;
public class HangmanGame {
	public void playGame()
	{
		System.out.println("Play");
	}
	public void instructGame()
	{
		System.out.println("   Music");
		System.out.println("ON      Off");
	}
	public void exitGame()    {
		System.out.println("Exit");
	}
	public static void main(String[] args) {
		int a;
		HangmanGame o1=new HangmanGame();
		System.out.println("Enter your first choice");
		Scanner s1=new Scanner(System.in);
		a=s1.nextInt();
		switch(a)
		{
		case 1:o1.playGame();
			break;
		case 2:o1.instructGame();
			break;
```

```
            case 3:o1.exitGame();
                   break;
            }
      }

}
```

output:

```
Enter your choice
1
Play
Enter your first choice
2
   Music
ON      Off
Enter your choice
3
Exit
```

****

1)

```
package leapyear;
import java.util.Scanner;
public class LeapYear {

       public static void main(String[] args) {
              // TODO Auto-generated method stub
      int year;
      System.out.println("Enter the year: ");
```

```
        Scanner s1=new Scanner(System.in);
        year=s1.nextInt();
        if(year%4==0)
        {
           System.out.println("Leap year");
        }
        else
        {
           System.out.println("Not a leap year ");
        }
         }

}
```

output:

```
Enter the year:
2020
Leap year
Enter the year
2021
Not a leap year
```

****

2)

```
package student;
import java.util.Scanner;
public class StudentMark {

        public static void main(String[] args) {
```

```
   // TODO Auto-generated method stub
   int RollNo;
   System.out.println("Enter the roll number: ");
   Scanner s1=new Scanner(System.in);
RollNo=s1.nextInt();
System.out.println("Roll number: "+RollNo);
String Name;
System.out.println("Enter the name: ");
   Scanner s2=new Scanner(System.in);
   Name=s2.next();
   System.out.println("The name: "+Name);
   int M1;
   System.out.println("Enter the marks in physics: ");
   Scanner s3=new Scanner(System.in);
M1=s3.nextInt();
System.out.println("The marks in physics: "+M1);
int M2;
   System.out.println("Enter the marks in chemistry: ");
   Scanner s4=new Scanner(System.in);
M2=s4.nextInt();
System.out.println("The marks in chemistry: "+M2);
int M3;
   System.out.println("Enter the marks in C.S: ");
   Scanner s5=new Scanner(System.in);
M3=s5.nextInt();
System.out.println("The marks in C.S: "+M3);
int total=(M1+M2+M3);
System.out.println("The total marks: "+total);
```

```
        float percentage=(M1+M2+M3)*0.333f;
        System.out.println("The total percentage: "+percentage);
        if(percentage>=80)
        {
           System.out.println("First class");
        }
        else if(percentage>=60)
        {
           System.out.println("Second class");
        }
        else if(percentage>=35)
        {
           System.out.println("third class");
        }
        else
        {
           System.out.println("fail");
        }
    }

}
```

output:

```
1)Enter the roll number:
784
Roll number: 784
Enter the name:
Aakash
```

```
The name: Aakash
Enter the marks in physics:
70
The marks in physics: 70
Enter the marks in chemistry:
80
The marks in chemistry: 80
Enter the marks in C.S:
90
The marks in C.S: 90
The total marks: 240
The total percentage: 79.92
Second class
2)
Enter the roll number:
100
Roll number: 100
Enter the name:
arun
The name: arun
Enter the marks in physics:
28
The marks in physics: 28
Enter the marks in chemistry:
30
The marks in chemistry: 30
Enter the marks in C.S:
23
```

```
The marks in C.S: 23

The total marks: 81

The total percentage: 26.973

fail
```

****

3)

```
package temperature;


import java.util.Scanner;


public class Temperature {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
	int temp;
	System.out.println("Enter the temperature: ");
	  Scanner s1=new Scanner(System.in);
	  temp=s1.nextInt();
	  if(temp>=30)
	  {
		System.out.println("HOT");
	  }
	  else
	  {
		System.out.println("COLD");
	  }
	}
```

```
}
```

output:

```
Enter the temperature:
45
HOT
Enter the temperature:
-7
COLD
**********************************************************************************
4)
package charector;
import java.util.Scanner;
public class Charector {


       public static void main(String[] args) {
              // TODO Auto-generated method stub
     char ch;
     System.out.println("enter the charector: ");
        Scanner s1=new Scanner(System.in);
        ch=s1.next().charAt(0);
        if(ch>='a'&&ch<='z'||ch>='A'&&ch<='Z')
        {
               System.out.println("Charector is an alphabet");
        }
        else if(ch>='0'&&ch<='9')
        {
```

```
                System.out.println("Charector is a digit");
        }
        else
if(ch=='!'||ch=='@'||ch=='#'||ch=='$'||ch=='%'||ch=='^'||ch=='&'||ch=='*')
        {
                System.out.println("Charector is a special charector");
        }
        else
        {
                System.out.println("invalid");
        }
       }

}
```

output:

```
1)enter the charector:
j
Charector is an alphabet
2)
enter the charector:
7
Charector is a digit
3)
enter the charector:
&
Charector is a special charector
```

****

5)

```
package grade;
import java.util.Scanner;
public class Grade {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		char ch;
		System.out.println("enter the charector: ");
		Scanner s1=new Scanner(System.in);
		ch=s1.next().charAt(0);
		switch(ch)
		{
		case 'E':System.out.println("Exelent");
			  break;
		case 'V':System.out.println("Very Good");
			 break;
		case 'G':System.out.println("Good");
			 break;
		case 'A':System.out.println("Average");
		    break;
		case 'F':System.out.println("Fail");
		    break;
		default:System.out.println(      );

		}
	}
```

```
}
```

output:

```
enter the charector:
A
Average
**********************************************************************************
6)
package day;
import java.util.Scanner;
public class Day {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int a;
		System.out.println("enter the choice: ");
		Scanner s1=new Scanner(System.in);
		a=s1.nextInt();
		switch(a)
		{
		case 1:System.out.println("MONDAY");
			 break;
		case 2:System.out.println("TUESDAY");
			break;
		case 3:System.out.println("WEDNESDAY");
			break;
		case 4:System.out.println("THURSDAY");
		    break;
```

```
            case 5:System.out.println("FRIDAY");
                break;
            case 6:System.out.println("SATURDAY");
                break;
            case 7:System.out.println("SUNDAY");
                break;
                   default:System.out.println(      );
                         }
      }

}
```

output:

```
enter the choice:
1
MONDAY
********************************************************************************
```

7)

```
package month;
import java.util.Scanner;
public class Month {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            String month1;
            System.out.println("enter the month: ");
            Scanner s1=new Scanner(System.in);
            month1=s1.next();
```

```
            switch(month1)
            {
            case "january":
            case "march":
            case "may":
            case "july":
            case "agust":
            case "october":
            case "december":System.out.println("31 Days");
                  break;
            case "april":
            case "june":
            case "september":
            case "november":System.out.println("30 Days");
                  break;
            case "february":System.out.println("28 Days");
                  break;
                    default:System.out.println(     );
            }
      }

}
```

output:

1)

```
enter the month:
july
31 Days
```

2)

enter the month:

june

30 Days

3)

enter the month:

february

28 Days

4)

enter the month:

aaja

invalid

****