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| A picture containing drawing, stop, room  Description automatically generated | Mobile Programming  Practical #6 | | |
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| **Name** | Darshan katkam Shriniwas | **Roll Number** | 21302A0022 |
| **Subject/Course:** | Mobile Programming | | |
| **Topic** | User Defined Functions | | |
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| User Defined Functions | | | |
| 1. Create a button called "mathematics". When you click on the button it should provide the information of arithmetic operator. 2. Write a program to implement user defined function for checking whether the entered number is even or odd. | | | |
| Main Activity: -  **package** com.example.practicalno6  import androidx.appcompat.app.AppCompatActivity import android.os.Bundle import android.widget.Button import android.widget.Toast  class MainActivity : AppCompatActivity() {  **override fun** onCreate(savedInstanceState: Bundle?) {  **super**.onCreate(savedInstanceState)  setContentView(R.layout.*activity\_main*)    **val** b1=findViewById<Button>(R.id.*B1*) **as** Button  **val** b2=findViewById<Button>(R.id.*B2*) **as** Button   b1?.setOnClickListener **{**  **val** a=arithop(100,200)  Toast.makeText(**this**,a,Toast.*LENGTH\_LONG*).show()  **}** b2?.setOnClickListener **{** Toast.makeText(**this**,**"+,-,\*,/ are the arithmatic operators"**,Toast.*LENGTH\_LONG*).show()   **}**  }   **fun** arithop(num1:Int,num2:Int):String{  **val** add=num1+num2  **return "?$**add**"**  } }  Xml File: -  <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android%22) xmlns:app="[http://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto%22) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools%22) android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".MainActivity">   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Hello World!"  app:layout\_constraintBottom\_toBottomOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent" />   <Button  android:id="@+id/B1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="B2"  tools:layout\_editor\_absoluteX="156dp"  tools:layout\_editor\_absoluteY="377dp"  app:layout\_constraintBottom\_toBottomOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent"/>   <Button  android:id="@+id/B2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="B2"  tools:layout\_editor\_absoluteX="161dp"  tools:layout\_editor\_absoluteY="611dp"  app:layout\_constraintBottom\_toBottomOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent"/>  </androidx.constraintlayout.widget.ConstraintLayout>  Output: -  Selected photo  **Darshan**  2)Main activity: -  **package** com.example.practicalno61  import androidx.appcompat.app.AppCompatActivity import android.os.Bundle import android.widget.Button import android.widget.EditText import android.widget.TextView  class MainActivity : AppCompatActivity() {  **override fun** onCreate(savedInstanceState: Bundle?) {  **super**.onCreate(savedInstanceState)  setContentView(R.layout.*activity\_main*)  **val** b1 = findViewById<Button>(R.id.*B1*) **as** Button  **val** s1 = findViewById<TextView>(R.id.*textView*) **as** TextView  **val** s2 = findViewById<EditText>(R.id.*editTextTextPersonName*) **as** EditText   b1?.setOnClickListener **{**   **val** b = s2.*text*.toString()  **val** c = even(b)  s1.*text* = c    **}** }  **fun** even(a: String): String {  **val** bb = a.*toInt*()  **if** (bb % 2 == 0) {  **return "Number is Even"** } **else** {  **return "Number is Odd"** }   }  }  XML Code: -  *<?***xml version="1.0" encoding="utf-8"***?>* *<***androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"**  **xmlns:app="http://schemas.android.com/apk/res-auto"**  **xmlns:tools="http://schemas.android.com/tools"**  **android:layout\_width="match\_parent"**  **android:layout\_height="match\_parent"**  **tools:context=".MainActivity"**>   <**TextView**  **android:id="@+id/textView"**  **android:layout\_width="wrap\_content"**  **android:layout\_height="wrap\_content"**  **android:text="Hello World!"**  **app:layout\_constraintBottom\_toBottomOf="parent"**  **app:layout\_constraintEnd\_toEndOf="parent"**  **app:layout\_constraintStart\_toStartOf="parent"**  **app:layout\_constraintTop\_toTopOf="parent"** />   <**Button**  **android:id="@+id/B1"**  **android:layout\_width="wrap\_content"**  **android:layout\_height="wrap\_content"**  **android:layout\_marginStart="166dp"**  **android:layout\_marginTop="132dp"**  **android:layout\_marginEnd="166dp"**  **android:layout\_marginBottom="175dp"**  **android:text="Even or Odd"**  **app:layout\_constraintBottom\_toBottomOf="parent"**  **app:layout\_constraintEnd\_toEndOf="parent"**  **app:layout\_constraintStart\_toStartOf="parent"**  **app:layout\_constraintTop\_toBottomOf="@+id/textView"** />   <**EditText**  **android:id="@+id/editTextTextPersonName"**  **android:layout\_width="wrap\_content"**  **android:layout\_height="wrap\_content"**  **android:layout\_marginStart="101dp"**  **android:layout\_marginTop="247dp"**  **android:layout\_marginEnd="101dp"**  **android:layout\_marginBottom="64dp"**  **android:ems="10"**  **android:inputType="textPersonName"**  **android:text="Name"**  **app:layout\_constraintBottom\_toTopOf="@+id/textView"**  **app:layout\_constraintEnd\_toEndOf="parent"**  **app:layout\_constraintStart\_toStartOf="parent"**  **app:layout\_constraintTop\_toTopOf="parent"** />  </**androidx.constraintlayout.widget.ConstraintLayout**>  Output: - 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