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| A picture containing drawing, stop, room  Description automatically generated | Mobile Programming  Practical #6 | | |
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| **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. | | | |
| 1. **XML FILE**   <?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:layout\_width="70dp"  android:layout\_height="24dp"  android:text="Sahil Shah"  app:layout\_constraintBottom\_toBottomOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintHorizontal\_bias="0.498"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent"  app:layout\_constraintVertical\_bias="0.323" />   <Button  android:id="@+id/button1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="mathematics"  tools:layout\_editor\_absoluteX="133dp"  tools:layout\_editor\_absoluteY="397dp" />   <Button  android:id="@+id/button2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Button"  tools:layout\_editor\_absoluteX="158dp"  tools:layout\_editor\_absoluteY="341dp" />  </androidx.constraintlayout.widget.ConstraintLayout>    **KOTLIN FILE**  package com.example.mp333  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.*button1*) as Button  val b2 = findViewById<Button>(R.id.*button2*) as Button  b1?.setOnClickListener **{** val tv = arithop(100, 200)  Toast.makeText(this, tv, Toast.*LENGTH\_LONG*).show()   **}** b2?.setOnClickListener **{** Toast.makeText(this, "+,-,\*,/ are arithmatic operators", Toast.*LENGTH\_LONG*).show()  **}** }  fun arithop(num1:Int, num2:Int):String {  val add = num1+num2  return "$add"   } }    **Output :**       1. **XML FILE**   <?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/TV"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="SAHIL SHAH"  app:layout\_constraintBottom\_toBottomOf="parent"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent"  app:layout\_constraintVertical\_bias="0.449" />   <Button  android:id="@+id/Button"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_marginStart="151dp"  android:layout\_marginTop="111dp"  android:layout\_marginEnd="166dp"  android:layout\_marginBottom="233dp"  android:text="Click"  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/ET"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_marginStart="185dp"  android:layout\_marginTop="244dp"  android:layout\_marginEnd="16dp"  android:layout\_marginBottom="31dp"  android:ems="10"  android:inputType="textPersonName"  android:text="Name"  app:layout\_constraintBottom\_toTopOf="@+id/TV"  app:layout\_constraintEnd\_toEndOf="parent"  app:layout\_constraintHorizontal\_bias="0.0"  app:layout\_constraintStart\_toStartOf="parent"  app:layout\_constraintTop\_toTopOf="parent"  app:layout\_constraintVertical\_bias="1.0" />  </androidx.constraintlayout.widget.ConstraintLayout>  **KOTLIN FILE**  package com.example.mp333  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 s1 = findViewById<TextView>(R.id.*TV*) as TextView  val s2 = findViewById<EditText>(R.id.*ET*) as EditText  val button = findViewById<Button>(R.id.*Button*) as Button   button?.setOnClickListener **{** val b = s2.*text*.toString()  val c = even\_odd(b)  s1.*text* = c  **}**  }  fun even\_odd(a:String):String{  val bb = a.*toInt*()  if (bb%2==0)  {  return "Number is Even"  }  else  {  return "Number is Odd"  }    } }  **OUTPUT :** | | | |
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