SHELL

1 Amstrong or Not

#!/bin/bash echo "Enter the number" read num n=\$num sum=0 while [\$num -gt 0] rem=\$((\$num%10)) sum=\$((\$sum+(\$rem * \$rem * \$rem))) num=\$((\$num/10)) done if [\$sum -eq\$n] then echo "\$n is armstrong" echo "Śn is not armstrong"

2 Calculator

#!/bin/bash echo "Enter two numbers:" read a read b echo "Enter choice." echo "1.Addition" echo "2.Substraction" echo "3.Multiplication" echo "4.Division" echo "Enter a choice" read ch case \$ch in 1)res=`echo \$a+\$b|bc`;; 2)res='echo \$a-\$b|bc':: 3)res=`echo \$a*\$b|bc`;; 4)res=`echo "scale=2;\$a/\$b"|bc`;; echo "Result=Śres'

3 circle

#!/bin/bash echo "Enter the radius" read r area=\$(echo "scale=2;3.14*(\$r*\$r)"|bc) echo "area of circle=\$area

4 Count of line

#!/bin/bash echo Enter the file name w=`cat \$file | wc -w c='cat \$file | wc-c' l='grep-c"." \$file' echo Number of characters in \$file is \$((echo Number of words in Sfile is Sw echo Number of lines in \$file is \$1

5. Factorial

#!/bin/bash echo "Enter a number" read num fact=1 while [Snum -gt 1] fact=\$((fact * num)) num=\$((num - 1)) echo "factorial=\$fact"

6 Fibonacci

done

#!/bin/bash echo "Enter the limit" read n x=0 y=1 i=2 echo "Fibonacci series upto \$n terms" echo "\$x" while [\$i -lt \$n] i=`expr \$i + 1` z=`expr \$x + \$y echo "\$z" x=\$y v=\$z

7 Good Morning

clear hours=`date|cut -c12-13` if [\$hours -le 12] then echo "good morning"

if [Shours -le 16] then

else

echo "good afternoon" elif [Shours -le 20] echo "good evening"

echo "good night"

8 Gross salary

#!/bin/bash echo "enter the basic salary:" read basic a=\$((\$basic * 40)) da=\$((\$a / 100)) b=\$((\$basic * 20)) hra=\$((\$b / 100)) gsalary=\$((\$basic + \$da + \$hra)) echo "The gross salary is : \$gsalary

9 Largest of three number

#!/bin/bash echo "Enter first number" read first echo "Enter second number" read sec echo "Enter third number" read third if [\$first -gt \$sec]; then if [\$first -gt \$third]; then echo "\$first is greatest number" else echo "Sthird is greatest number" if [\$sec -gt \$third]; then echo "\$sec is greatest number" else echo "\$third is greatest number"

10 Mean and stadard Deviation

#!/bin/bash echo "Enter first number:" echo "Enter second number:" read n2 echo "Enter third number:" read n3 m=\$((\$n1 + \$n2 + \$n3)) mean=\$(echo "scale=2;\$m / 3"|bc) echo echo "mean=\$mean" y1=\$(echo "\$n1-\$mean"|bc) y2=\$(echo "\$n2-\$mean"|bc) y3=\$(echo "\$n3-\$mean"|bc) x1=\$(echo "\$y1 ^ 2"|bc) x2=\$(echo "\$y2 ^ 2"|bc) x3=\$(echo "\$y3 ^ 2"|bc) s=\$(echo "scale=2;\$(echo \$x1 + \$x2 +\$x3|bc)/2"|bc) sd=\$(echo "sqrt(\$s)"|bc) echo "standard deviation=\$sd"

11 Prime number

echo "Enter the limit: read n echo "The prime numbers between 1 and \$n are: for((i=2;i<=\$n;i++)) dο f=0 for((j=2;j<=\$((\$i/2));j++)) if [\$((\$i%\$j)) -eq 0] then f=1 done if [\$f -ne 1] then echo \$i

12 Reverse of number

done

#!/bin/bash echo "Enter the number:" read n rev=0 g=\$n while [\$n -gt 0] do sd=\$((\$n%10)) rev=\$((\$rev*10+\$sd)) n=\$((\$n/10)) echo "Reverse of \$g is \$rev"

13 Sum of digits

#!/bin/bash echo "Enter a number" read n g=\$n s=0 while [\$n -gt 0] do k=\$((\$n%10)) n=\$((\$n/10)) s=\$((\$s+\$k)) echo "sum of digits of \$g is:\$s"

ANDROID

1.Hello world

string.xml

<string name="btnn"> Display<string>

activity main xml(button)

@string/btnn"/>

main activity.java

Button btn;

btn=findviewbvid(R.id.button1): btn.setonclicklistener(niew on click listener()

Toast makeText(Mainactivity this "Hello android",Toast.LENGTH_SHORT).show();

2.Display string

string.xml <string name="tv1">enter the

string</string>
<string name="btn">show</string>

activity main xml android:text="@string/tv1"

android:text="@string/btn" /> main activity.java

EditText tv1; Button btn:

tv1=(EditText)findViewById(R.id.editText

btn=(Button) findViewById(R.id.button1); btn.setOnClickListener(new OnClickListener()

tv1.setText(tv1.getText().toString());Toast.makeText(MainActivity.this.ty1.get Text().toString()Toast.LENGTH_LONG).sh ow();

3.Add two numbers

String.xml

<string name="tv1">first number</string>
<string name="tv2">secndumber</string> <string name="btn">display</string>

activity main xml(textview)

@string/tv1" @string/tv2" @string/btnn"/>

main activity.java

Edittext txt1: Edittext txt2; Button btn: textview tview: float a: float h

txt1=findviewbyid(R.id.editText1); txt2=findviewbyid(R.id.editText2); btn=findviewbvid(R.id.button1): tview=findviewbyid(R.id.textview3); btn.setonclicklistener(niew on click listener()

a=float.parsefloat(txt1.gettext()to string()); b=float.parsefloat(txt2.gettext()to string()); c=a+b:

tview.setText(Float.toString(c));

4.Radio button

String.xml

<string name="m">male</string> <string name="f">female</string> <string name="o">other</string>

activity main xml

android:text="@string/m" /> android:text="@string/f" /> android:text="@string/o"/> android:text="@string/btn" />

main activity.java Button btn;

RadioGroup rdg: RadioButton rdb;

btn=(Button) findViewById(R.id.button1); rdg=(RadioGroup) findViewById(R.id.radioGroup1); btn.setOnClickListener(new OnClickListener() {

int seletid=rdg.getCheckedRadioButtonId(); rdb=(RadioButton)findViewById(seletid); Toast.makeText(MainActivity.this, rdb.getText().toString(),Toast.LENGTH LONG .show():

5.Relative layout

string.xml

<string name="btn">SHOW</string> activity main xml android:text="@string/btn"/>

main activity.java

RelativeLavout r1: Button btn;

r1=(RelativeLayout) findViewById(R.id.relout) btn=(Button) findViewById(R.id.button1); btn.setOnClickListener(new OnClickListener()

r1.setBackgroundColor(Color.RED);

6. Multiplication table

string.xml <string name="btn">show</string> activity main xml android:text="@string/btn" />

main activity.java

EditText txt: Button btn: TextView txtv;

txt=(EditText) findViewById(R.id.editText1); btn=(Button) findViewById(R.id.button1); txtv=(TextView) findViewById(R.id.textView1) btn.setOnClickListener(new OnClickListener()

StringBuffer temp=new StringBuffer(); String num=txt.getText().toString(); int n=Integer.parseInt(num);

7.Alert box

activity main xml

android:text="SHOW" />

main activity.java

Button btn:

btn=(Button) findViewById(R.id.button1); btn.setOnClickListener(this);

AlertDialog.Builder b1= new AlertDialog.Builder(MainActivity.this); b1.setIcon(R.drawable.ic launcher); b1.setTitle("Sample Alert Box"); b1.setMessage("Hello Good Morning"); h1 setPositiveButton("OK" new DialogInterface.OnClickListener() {

Toast.makeText(MainActivity.this, "You Clicked Ok", Toast.LENGTH_LONG).show();

b1.setNegativeButton("Cancel", new DialogInterface.OnClickListener() {

Toast.makeText(MainActivity.this, "You Clicked Cancel ' Toast.LENGTH LONG).show();

AlertDialog d1 = b1.create(); d1.show();

8.Spinner main activity.java

TextView tv: String [] items

={"Mouse","KeyBord","Speaker","Printer"};

sp=(Spinner) findViewById(R.id.spinner1); tv=(TextView) findViewById(R.id.textView1); sp.setOnItemSelectedListener(this);

ArrayAdapter<String> adt= new ArrayAdapter<String>(this android.R.layout.simple_list_item_1,items); sp.setAdapter(adt);

tv.setText(items[arg2]);

9.Check box

activity main xml

android:text="Android" /> android:text="JAVA" /> android:text="PHP" /> android:text="Shell Script" />
android:text="SHOW" />

main activity.java

CheckBox chk1,chk2,chk3,chk4; Button btn;

chk1=(CheckBox) findViewById(R.id.checkBox1); chk2=(CheckBox) findViewById(R.id.checkBox2); chk3=(CheckBox) findViewBvId(R.id.checkBox3): chk4=(CheckBox) findViewById(R.id.checkBox4); btn=(Button)findViewBvId(R.id.button1); btn.setOnClickListener(this);

StringBuffer strb= new StringBuffer(); strb.append("Android:").append(chk1.isCh

strb.append("\nJAVA:").append(chk2.isChe cked());

strb.append("\nPHP:").append(chk3.isChe ked()); strb.append("\nShellScript:").append(chk4

isChecked());
Toast.makeText(MainActivity.this,strb

.toString(),Toast.LE NGTH_LONG).show();

10.List items

main activity.java

lv=(ListView) findViewBvId(R.id.listView1): title[]={"Google","Facebook","Twitter","Yo utube",
"Twitter","Whatsapp","Snapchat","TikTok "."Instagram".}: ArrayAdapter<String> adt = new ArrayAdapter<String>(MainActivity.this,an droid.R.layout.simple 1 ist_item_1,android.R.id.text1,title); lv.setAdapter(adt);

getMenuInflater().inflate(R.menu.main, menu): return true;

11.Another activity intent

activity main xml

android:text="Move To Next Activity" /> activity second.xml

android:text="Move To First Activity"

main activity.java

Button btn;

btn=(Button) findViewById(R.id.button1); btn.setOnClickListener(this); }

Intent i = new Intent(MainActivity.this,SecondActivity.cla

second activity.java

startActivity(i); Button btn;

btn= (Button) findViewById(R.id.button1); btn.setOnClickListener(this);

Intent i = new Intent(SecondActivity.this,MainActivity.cla startActivity(i);

12.IP address

Androidmainfest.xml

<?xml version="1.0" encoding="utf-8"?> <uses-sdk android:minSdkVersion="8" android:targetSdkVersion="17" /> uses-permission android:name="android.permission ACCESS_WIFI_STATE"/>

main activity.java

TextView tv;

String ina:

tv=(TextView) findViewById(R.id.textView1); WifiManager wm = (WifiManager) getSystemService(WIFI SERVICE); ipa=android.text.format.Formatter.format IpAddress(wm.getCon nectionInfo().getIpAddress()); tv.setText(ipa);

getMenuInflater().inflate(R.menu.main, menu); return true;

13.Menu items

activity main xml

android:title="Cut"/> android:title="Copy"/> android:title="Paste"/> android:title="Google"/>

```
main activity.java
getMenuInflater().inflate(R.menu.main.
return true;
int id = item.getItemId();
if (id == R.id.copyItem)
 Toast.makeText(MainActivity.this, "You
Clicked Copy Menu Item",500).show();
if (id == R.id.cutItem)
 Toast.makeText(MainActivity.this. "You
 Clicked Cut Menu Item",
 Toast.LENGTH_LONG).show();
if (id == R.id.pasteItem)
```